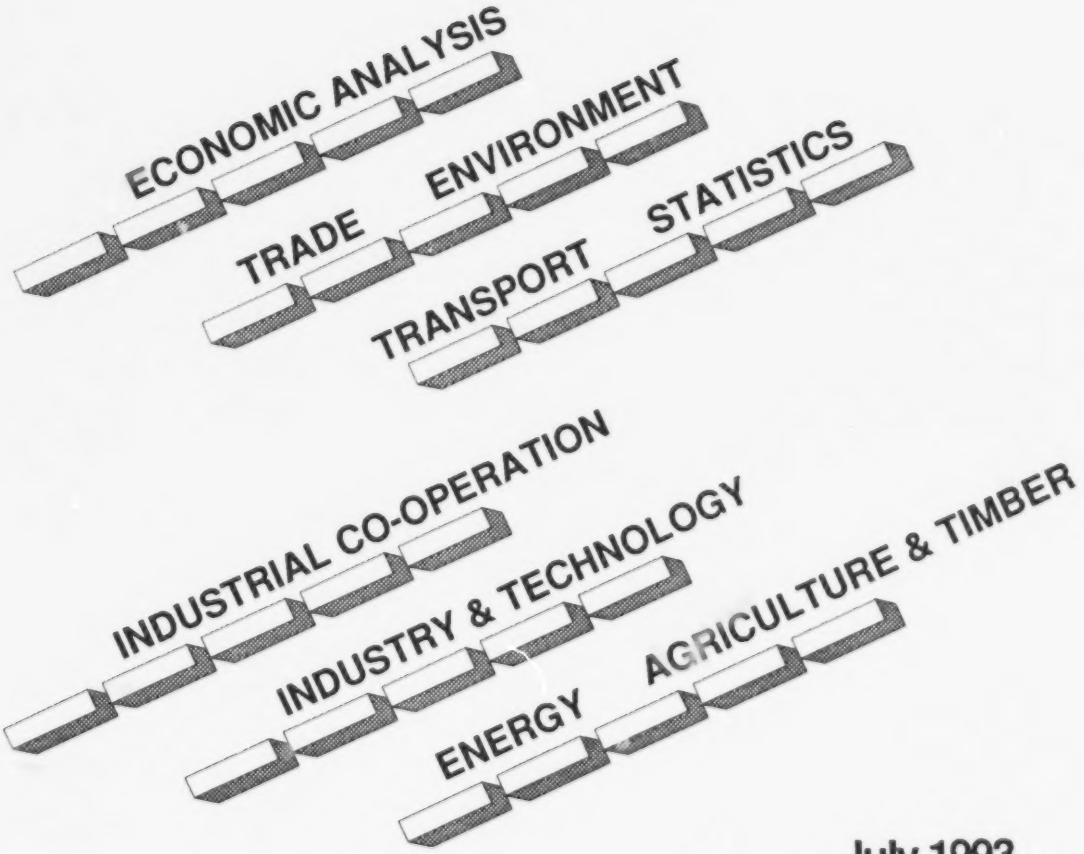
United Nations Economic Commission for Europe
UN/ECE

Publications



July 1993

United Nations Economic Commission for Europe
UN/ECE

Table of Contents

Preface 2

GENERAL ECONOMIC PROBLEMS 4

Series: UN/ECE Economic Studies 5
Series: UN/ECE Discussion Papers 6
Workshops for the Economies in Transition 7

TRADE AND INDUSTRIAL CO-OPERATION 8

ENVIRONMENT 12

Environmental Protection 12
Impact Assessment 13
Industrial Accidents 13
Water 14
Air Pollution 15
Series: Air Pollution Studies 16
Human Settlements 17
Building 18

TRANSPORT 20

ENERGY 23

Series: ECE Energy Series 23
General Studies 25

AGRICULTURE AND TIMBER 26

Agriculture 26
Timber 27

INDUSTRY AND TECHNOLOGY 29

Engineering Industry 29
Chemical Industry 30
Steel Industry 31
Series: UN/ECE Steel Series 32

STATISTICS 33

Energy 33
Environment 33
Housing and Building 34
Transport and Traffic 34
Industry 34

Title Index 36
Order Form 39

United Nations Economic Commission for Europe
UN/ECE

Preface

THE UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

A REGIONAL FORUM FOR MULTILATERAL CO-OPERATION AND ITS PUBLICATIONS

The United Nations Economic Commission for Europe (UN/ECE) is one of the five regional commissions of the United Nations. The UN/ECE region comprises the whole of Europe and North America and Israel */, bringing together highly industrialized countries with long traditions of market economy and countries which after a long history of central planning and economic autarky have in recent years opted for the free-market system and integration into the world economy.

Established in 1947 by the United Nations Economic and Social Council (ECOSOC), the Commission's mandate has been to assist in the reconstruction of war-devastated Europe, and to promote economic co-operation between all its member countries as well as with the other regional commissions of the UN.

Fundamental changes in the countries of central and eastern Europe have given new stimulus to the work of the UN/ECE. Much of its activities are now focused on assisting the countries in transition to a market economy. The UN/ECE can rely upon its long-standing experience in promoting dialogue and co-operation between countries irrespective of their level of development or their economic and social systems. This also makes the UN/ECE a valuable partner for other regions of the world.

Activities of the UN/ECE focus on five sectoral priorities: environment, transport, statistics, trade facilitation, and economic analysis; they also include energy, development of international trade, industry and technology, agriculture and timber and human settlements. The results of work in these areas have practical significance for many aspects of every day life; they include internationally agreed standards of produce, the construction of vehicles, the transport of dangerous goods, the harmonisation of customs formalities and the protection of endangered animal and plant species, along with many other issues which call for international cooperation.

A number of conventions and other agreements have been elaborated within the framework of the UN/ECE, notably in the areas of transport, protection of the environment and trade facilitation, in addition to regional strategies, policy recommendations, codes of conduct and other documents containing recommendations for application at the national and the international levels.

***/ UN/ECE MEMBER COUNTRIES** (as of 1 June 1993)

Albania; Austria; Belarus; Belgium; Bosnia-Herzegovina; Bulgaria; Canada; Croatia; Cyprus; Czech Republic; Denmark; Estonia; Finland; France; Germany; Greece; Hungary; Iceland; Ireland; Israel; Italy; Latvia; Liechtenstein; Lithuania; Luxembourg; Malta; Monaco; Netherlands; Norway; Poland; Portugal; Republic of Moldova; Romania; Russian Federation; San Marino; Slovak Republic; Slovenia; Spain; Sweden; Switzerland; the former Yugoslav Republic of Macedonia; Turkey; Ukraine; United Kingdom; United States of America; Yugoslavia.

United Nations Economic Commission for Europe
UN/ECE

The UN/ECE also interacts with the Conference on Security and Co-operation in Europe (CSCE) and implements pertinent provisions and recommendations contained in "Basket Two" of the Helsinki Final Act and the subsequent CSCE documents up to the Charter of Paris for a New Europe (1990). It has served as the key instrument for putting into practice CSCE recommendations in the fields of economy, statistics, and environment.

The publications issued by the secretariat of the UN/ECE reflect all its areas of activity. The studies are conceived for the practical use of policy makers and the business community, reaching beyond the region to other parts of the world. They are indispensable for academic studies on the economic development of the region in all its aspects and in particular in the countries in transition to a market economy. The annual volumes of the Economic Survey of Europe and the Economic Bulletin for Europe, as well as the UN/ECE Economic Studies, are widely appreciated for their timely data and analyses concerning the UN/ECE region and the profound changes under way, particularly in countries in transition, which present serious challenges but also offer new opportunities for economic co-operation.

Gerald Hinteregger
Executive Secretary
United Nations Economic Commission for Europe

United Nations Economic Commission for Europe
UN/ECE

GENERAL ECONOMIC PROBLEMS

Economic Commission for Europe 1947-1987

A history of the first four decades of the United Nations Economic Commission for Europe (UN/ECE and its programme in the fields of trade, industrial cooperation and standardization; environment (air pollution, water management, and general environment); inland transport; energy (coal, gas, electric power, general energy policies and problems); agriculture and timber; human settlements; industry (iron and steel, chemical industry, engineering industry and automation); science and technology; economic research, projections and programming; statistics.

Sales No. E.87.II.E.17 **ISBN 92-1-116390-0**
140pp. **$15.00**

Economic Survey of Europe 1992-1993

The Survey is an internationally recognized review of economic developments in Europe and North America. It provides an authoritative analysis of central and eastern Europe and gives a comprehensive account of current economic developments in Europe as a whole. There are special chapters on east-west trade and financial relations. Each issue contains graphs, charts, tables and a statistical appendix. Issued every year. Back issues are available.

Sales No. E.93.II.E.1 **ISBN 92-1-116555-5**
1992/93 **$55.00**

Economic Bulletin for Europe

Examines world trade and the economies of Europe and North America on the basis of the latest data. Every issue contains chapters on changes in output and trade, recent economic developments in the region, recent changes and prospects in East-West trading and financing. Special chapters analyse long-term and policy perspectives of selected topics relating to East-West trade. Each issue also contains charts and tables. Volume 33 to 40 were published quarterly by Pergamon Press. Starting with volume 41 the Bulletin is again published annually by the United Nations. 1948-1980 available on microfiche.

Sales No. E.93.II.E.2 **ISBN 92-1-116556-3**
Vol. 44 (1992) **143pp.** **$65.00**

Overall Economic Perspective to the Year 2000

Published by the Economic Commission for Europe, this study was prepared by economic advisers to help governments to identify long-term economic problems, discuss their possible evolution and present recommendations for solving them. The study provides overall economic surveys of North America and Europe and analyses general trends. It reports on challenges, opportunities, availability of resources and factors of potential growth. Scenarios explore long-term economic growth conditions, simulation strategies, base-line versus higher growth scenarios. Several special issues are discussed, for example energy prospects and environment trends. One chapter discusses the impact of science and technology on long-term economic development. An important feature off the report is the over one hundred charts and tables which all provide projections to the year 2000. Includes a useful glossary of terms.

Sales No. E.88.II.E.4 **ISBN 92-1-116416-8**
224pp. **$48.00**

United Nations Economic Commission for Europe
UN/ECE

Series: UN/ECE Economic Studies

No. 1
Economic Reforms in the European Centrally Planned Economies

An authoritative study which analyses the economic reforms in central and Eastern Europe. In particular, three main themes are examined: the framework of economic reform; the role and functioning of enterprise and the economic policy objectives and means.

Each subject is treated in three ways: reports of eminent scholars in the countries concerned, comments of outstanding Western and United Nations experts, and summaries of the discussions held during the symposium on which the book is based.

The symposium itself, organized in association with the Vienna Institute for Comparative Economic Studies, was widely regarded as being a lively and highly instructive meeting of minds on one of the crucial developments of our time.

The book also offers insight into what will become huge markets for the western economies.

Sales No. GV.E.89.0.3 **ISBN 92-1-116445-1**
261pp. **$50.00**

No. 2
Reforms in Foreign Economic Relations of Eastern Europe and the Soviet Union

This volume presents the results of an international symposium organized by UN/ECE in association with *Ost Europa Institut* and *Süd Ost Institut* from Munich, Germany. Three subjects are dealt with in detail:

- institutional framework for foreign economic relations;
- economic relations with market economies; and
- economic relations with the CMEA member countries.

For each of these subjects reports by national experts containing analysis of latest developments, legislation and prospects are provided, in addition to comments by three prominent western and UN experts for reports on each of the subjects and summaries of the dialogue in the symposium itself.

Sales No. E.91.II.E.5 **ISBN 92-1-116502-4**
201pp. **$60.00**

No.3
Demographic Causes and Economic Consequences of Population Aging in Europe and North America

Proportions and absolute numbers of elderly in the populations of a majority of the industrialized countries have undergone increases in the recent decades. This trend, which has been primarily occasioned by a secular decline in fertility, is expected to accelerate into the early Twenty-first Century and beyond. Its consequences, which are becoming pervasive, are being felt at the level of family, community and society. Scholars and policy makers are increasingly concerned with them and some of these concerns underline the preparation of this volume.

The essays contained in this volume are prepared under a research project of the Economic Commission for Europe on economic and social consequences of aging in Europe and North America. They include country case studies, as well as cross-national studies. Some essays focus on the demographic aspects of population aging, including the effects of changing vital rates on aging. Others are concerned with the impact of aging on the economy, public expenditures and the labour market.

Sales No. GV.E.92.0.4 **ISBN 92-1-100372-5**
483pp. **$70.00**

No.4
Comparative GDP Levels: Physical Indicators Phase III

Study reviewing developments in methods for the international comparison of GDP levels in view to providing alternative solutions. Compares overall results concerning developed market economies, the relationship between highly developed and less developed European economies and between developed market economies and centrally planned economies against estimates made by other international organizations and researchers.

Sales No. GV.E.93.0.5 **ISBN 92-1-100391-1**
230pp. **$60.00**

No.5
Economic Integration in Europe and North America

This volume is a unique attempt to look comprehensively at the integration processes now under way in Europe and North America and their possible effects on the countries involved and the third parties. The book is divided into three chapters covering the following subjects:

- economic integration in western Europe;
- intra-CMEA economic relations;
- North American Free Trade Agreement.

Sales No. GV.E.93.0.1 **ISBN 92-1-100387-3**
220pp. **$50.00**

United Nations Economic Commission for Europe
UN/ECE

No.6
Social Aspects and Country Reviews of Population Aging
(Forthcoming)

Series: UN/ECE Discussion Papers

The purpose of this new series, is "the critical examination of economic theories and their confrontation with empirical evidence, analytical review of and assessment of economic policy options faced by individual countries, groups of countries or the international community at large, as well as the identification of possible answers to challenges and problems arising from different aspects of the development of contemporary societies - economic, environmental, social, political, etc." In contrast to other publications prepared by the UN/ECE secretariat, these studies will be signed.

Vol.3 (1993) No.1
Comparative Views of Economic Reforms in Hungary, Poland and Czechoslovakia
(Forthcoming)

Vol.3 (1993) No.2
Roundtable on European Integration
(Forthcoming)

Vol.2 (1992), No.1
Personal and Collective Services: An International Perspective
A set of papers on the trends, problems and prospects for the development of personal and collective services in the ECE region, to include the former Soviet Union. An international comparison of service sector employment growth for seven OECD countries is included, as is the consumption of services by households, the problems and difficulties encountered in making international comparisons, and the list of topics which deserve special consideration for the future.

Sales No. GV.E.92.0.22 **ISBN 92-1-100383-0**
52pp. **$28.00**

Vol.2 (1992), No.2
The Conditions for Economic Recovery in Central and Eastern Europe
This issue contains the transcript of a Round-table held in May 1992 under the auspices of the Senior Economic Advisers to ECE Governments. The panellists were Professor Lutz Hoffmann, Director of the German Institute for Economic Research in Berlin; Professor Henryk Kierzkowski, Graduate Institute of International Studies, Geneva, and Deputy chief Economist of the European Bank for Reconstruction and Development, London; Professor Károly Attila Soós, Member of Parliament, Budapest; Professor Jakov Urinson, Director of the Centre of Economic Analysis and Forecasting, Ministry of Economics, Russian Federation, Moscow; and Aleksandar Vacic, Director, Division for Economic Analysis and Projections, UN/ECE.

Sales No. GV.E.92.0.24 **ISBN 92-1-100384-9**
39pp. **$25.00**

Vol.2 (1992), No.3
The Scope for Macroeconomic Policy to Alleviate Unemployment in Western Europe
Paper on macroeconomic policy theories and unemployment. Provides facts on inflation and unemployment in eastern Europe and the CIS and justifies the high unemployment of the 1980s.

Sales No.GV.E.92.0.27 **ISBN 92-1-100386-5**
34pp. **$25.00**

Vol.2 (1992), No.4
Economics and Environment in the former Soviet Union and Czechoslovakia
This report considers the interaction between the national economy and the environment in the USSR; the erroneous strategy of natural resource management as it developed historically for political and ideological reasons; its impact on the environment as a whole and on natural systems; and the current state of the environment and its reverse influence on the economy. It moreover covers the economy and the environment before 1989 in Czechoslovakia; the consequences of changes in the environment; and the transition to a new strategy for protecting the environment and utilizing natural resources.

Sales No. GV.E.93.0.11 **ISBN 92-1-100665-1**
50pp. **$28.00**

Vol.1 (1991), No.1
Economic Growth in the Market Economies, 1950-2000
This study, written by Andrew Britton, Director of the National Institute of Economic and Social Research, London, presents a critical analysis of the usual interpretation of the nature and causes of economic growth, reviews the phases of growth since the Second World War, looks at the so-called "conservative revolution" in the economic theory, and offers its view on the outlook for the economic growth in the market economies during the 1990s.

Sales No. GV.E.91.0.15 **ISBN 92-1-100365-2**
31pp. **$25.00**

United Nations Economic Commission for Europe
UN/ECE

Vol.1 (1991), No.2
Five Years of Perestroika: Results, Problems, Prospects

This publication includes the transcript of a Round-table, organized under the auspices of the Senior Economic Advisers to ECE governments, one of the UN/ECE principal subsidiary bodies, with Messrs. Abel Aganbegian, Rector, Academy of National Economy, Moscow; John Flemming, Chief Economist, EBRD London; Marion Nuti, Senior Economic Adviser, the commission of the European Communities, Brussels; Dariusz Rosati, Director, Foreign Trade Institute, Warsaw, and Aleksandar Vacic, Director, Division for Economic Analysis and Projections, UN/ECE. The issue also contains a detailed report on the economic developments and economic reforms in the former Soviet Union, prepared by Academician Aganbegian for the Round-table.

Sales No. GV.E.91.0.22 **ISBN 92-1-100368-7**
61pp. **$25.00**

Vol.1 (1991), No.3
Managing Reforms in the East European Countries: Lessons from the Post-war Experience of Western Europe

Written by M. Panic, Bursar of Selwyn College of Cambridge University, this issue offers a detailed analysis of the policy options and choices of the European countries after the Second World War. The policies, according to Prof. Panic, are important for managing the economic reforms in central and eastern European countries now in the transition to the market system.

Sales No. GV.E.92.0.1 **ISBN 92-1-100369-5**
200pp. **$25.00**

Vol.1 (1991), No.4
Economic Reforms and their Significance for All-European Cooperation

This issue includes the transcript of a Round-table organized under the auspices of the Senior Economic Advisers to the ECE governments, in which the panellists were Andrew Britton, Director, the National Institute of Economic and Social Research, UK; Antonio Costa, Director-General in the EC Commission; Karel Dyba, Minister of Economics of the Czech Republic; Witold Trzeciakowski, Chairman of the Polish Economic Council, Aleksandar Vacic, Director, at the Division for Economic Analysis and Projections, UN/ECE and Salvatore Zecchini, Director of the Centre for Cooperation with the European Economies in Transition, OECD. In addition, it also contains an ECE blueprint on condition, contents and sequence of the economic reforms leading to a smooth transition from the centrally planned to the market system.

Sales No. GV.E.92.0.2 **ISBN 92-1-100370-9**
59pp. **$27.00**

Workshops for the Economies in Transition

Industrial Policies in the Economies in Transition (Forthcoming)

The publication is a collection of some of the principal papers presented at a workshop held in Hungary in October 1992. Based on the experiences of western countries and recent approaches adopted in central and eastern European countries, it seeks to define the new role of Government in the economies in transition in industrial policy-making and industrial restructuring.

United Nations Economic Commission for Europe
UN/ECE

TRADE & INDUSTRIAL COOPERATION

East-West Investment News

The promulgation of new laws permitting foreign enterprises to establish joint ventures with domestic enterprises and, more recently, to set up fully-owned subsidiaries in central and east European countries have stimulated a remarkable upsurge in foreign investor interest in these countries.

The UN/ECE monitors changes in these laws and through its own database on joint ventures and foreign investments, records their growth and spread. The purpose of this quarterly newsletter is to provide governments, businessmen and students of the subject with the latest information on both aspects - new regulations and new statistical information - of this fast-changing sector of East-West business.This newsletter is available for a yearly subscription fee.

Annual subscription **$80.00**
Single issue **$20.00**

World Investment Directory: Central and Eastern Europe

The UN/ECE has produced this Directory, in cooperation with the Transnational Corporations and Management Division in New York, to inform researchers in universities and government departments about foreign direct investment in central and eastern Europe. It includes data on FDI stocks and flows, basic data on firms, the legal framework within which the investment takes place and bibliographic information pertaining to the role of transnational corporations in individual countries.

Presenting for the first time a comprehensive source of information on FDI, the World Investment Directory should enable interested users to undertake a more thorough analysis of foreign-direct-investment trends and their impact than has been possible up to now.

Sales No. E.93.II.A.1 **ISBN 92-1-104402-2**
Vol.II **432pp.** **$65.00**

Trade Data Elements Directory UNTDED 1990

Trade facilitation methods are gaining worldwide acceptance as business companies are experiencing their benefits. One such application is EDI (Electronic Data Interchange) for which standards are now being established (UN/EDIFACT = Electronic Data Interchange for Administration, Commerce and Transport). Other applications include e.g. the UN Layout Key for Trade Documents, codes for modes of transport, measurements types of cargo, packages and cargo materials, etc. The basis of all trade facilitation is the use of a common language: identical standardised codes. The various activities which constitute international trade and transport have been broken down into small pieces of data (e.g. date, invoice number, place of discharge, VAT amount, etc.) which are called "trade data elements". A directory presenting these data facilitation elements is now available in paper form and electronic form (diskettes): this "Directory" was prepared by the UN Economic Commission for Europe and the Trade Facilitation Programme of the UN Conference of Trade and Development. It provides a comprehensive presentation of 700 standard data elements by name, with descriptions, data value specifications and notes, cross-references and synonyms. Elements are grouped into broad categories (e.g. dates, times; addresses; clauses, conditions, terms; amounts, percentages; etc.). There are also alphabetic and numeric indexes of the elements, a listing of codes which can be used for representation of data values, explanatory notes and a summary of various recommendations and standards relevant to trade facilitation. The standard data elements can be used with any method for data interchange, on paper as well as with electronic means.

The "Trade Data Elements Directory" will be updated regularly. It is also available on diskette for US $100 (diskettes are up-to-date at time of ordering and reflect the latest changes). Also available, on a different diskette and for US $100, is the "Trade Data Interchange Directory" (UNTDID) which contains UN/EDIFACT syntax rules, standard data segments and messages.

Sales No. E.90.II.E.8 **ISBN 92-1-116473-7**
325pp. **$95.00**

United Nations Economic Commission for Europe
UN/ECE

Legal Aspects of Privatization in Industry

A central challenge facing the countries of eastern Europe in their transition towards market economies is the privatization of their enterprises. To meet this challenge, these countries require a proper legal framework which ensures that the process of privatization is carried out speedily yet with transparency and propriety. Given the legacy of central planning, the legal systems of these countries are inadequate to deal with privatization and need to be reformed. This task requires both the rescinding of and amendment to, existing laws and the introduction of new ones.

The aim of this Guide is to assist the countries in transition in their task of establishing a suitable legal framework for privatization. It does this by outlining: the principal problems most likely to arise in the course of privatizing their enterprises; the new laws and institutions which will be required; and the main methods that can be employed in the task of privatization.

The Guide was prepared under the auspices of the Committee for the Development of Trade and drafted by the Working Party on International Contract Practices in Industry.

Sales No. E.92.II.E.2 **ISBN 92-1-116534-2**
157pp. **$50.00**

Management Development in East-West Joint Ventures: A Guide for Managers in the Economies in Transition

A key issue facing western companies active in eastern Europe or planning operations there is the recruitment and training of qualified management, both expatriate and local. This situation arises from the lack in the economies in transition of management personnel with experience of the operation of market economies.

The Guide is primarily intended for western companies establishing businesses in central and eastern Europe and for management training specialists in both eastern and western countries. It will also be of interest to governmental departments responsible for promoting enterprise and management development in their respective countries.

The Guide is divided into six sections. Section 1 describes the growth of East-West Joint Ventures and the road to a market economy in eastern Europe. Section 2 examines management practices in the economies in transition. Section 3 describes the managemental requirements for East-West joint ventures and foreign investment projects and the responses of western companies, Section 4 discusses the role of the management training institutions in East and West and provides information on courses currently being provided to train managers from eastern Europe, Section 5 outlines the financial support available for enterprises establishing businesses in eastern Europe to train managers. Section 6 provides useful information, addresses, bibliographies on the topic.

The Guide was prepared in cooperation with the Entrepreneurship and Management Development Branch of the ILO and incorporates findings and recommendations from two UN/ECE workshops on the subject which were held in Vienna and Rome in 1991 and 1992 respectively.

Sales No. E.93.II.E.18 **ISBN 92-1-116567-9**
130pp. **$30.00**

Guide on Selected Legal Issues Related to Privatization and Foreign Direct Investment in the Economies in Transition: A Comparative Analysis (Forthcoming)

The purpose of this Guide is to inform parties to joint ventures and foreign direct investment projects about the main legal issues relating to foreign investment and privatization in the economies in transition.

Part 1 describes the issues relating to the establishment of business in central and eastern Europe, namely, obtaining authorization to invest, the legal forms permitted and the rights of establishment.

Part 2 examines the issues relating to the acquisition of state-owned enterprises and their assets under these countries privatization programmes, that is, the methods of privatization, the procedures for obtaining authorization and the provisions for protecting the purchaser of the property from claims arising from previous owners and creditors or from the environmental damage caused when the property belonged to the state.

Part 3 refers to issues relating to the operation of businesses with foreign participation e.g., tax rates and fiscal incentives, guarantees against nationalization, protection of intellectual property, employment law and the right of foreigners to buy land.

The laws of the following countries are discussed and compared in the Guide: Albania; Bulgaria; the Commonwealth of Independent States; the Czech Republic; Estonia; Hungary; Latvia; Lithuania; Poland; Romania, Slovakia and Slovenia. The Guide is intended to show the prospective investor where the most attractive conditions can be found and will be of particular interest to western businessmen, lawyers and consultants.

United Nations Economic Commission for Europe
UN/ECE

Foreign Direct Investment and Privatization in the Countries of Central and Eastern Europe: Legal Aspects

Lack of knowledge about the legislative framework is one of the main factors in deterring western investors in central and eastern Europe. The purpose of this Guide, which is addressed to prospective foreign investors and Governments of the region, is to describe the legal issues relating to establishing, acquiring and operating a business in central and eastern Europe.

Although not exhaustive, the issues described in this Guide have been selected as being among the most pertinent for foreign investors. The issues chosen also reflect, and are indicative of, the extent to which the country operates a regime which is open to foreign firms, The issues related to acquiring state-owned enterprises and their assets, for example, compare in each country the methods of privatization, obtaining authorization to purchase state assets, the rights of foreign investors to participate in privatization and the extent to which the state protects foreign investors from claims on their newly acquired property from former owners, creditors, etc.

Over 20 countries' legislation on these issues is analysed in this Guide.

The Guide was prepared by the UN/ECE Working Party on International Contract Practices in Industry.
Forthcoming

East-West Joint Ventures: Economic, Business, Financial and Legal Aspects

In a well documented analysis of the motives for entering into east-west joint ventures, supported by full statistical coverage of their scope and type of activity, the publication examines trends in joint venture formation and the practical experience of setting up and operating joint ventures located in Bulgaria, Czech Republic, Hungary, Poland, Romania, Slovakia and the former Soviet Union.

To update information contained in this publication, a quarterly "East-West Investment and Joint Ventures News" is published by the UN/ECE, available upon request.

Sales No. E.88.II.E.18 **ISBN 92-1-116422-2**
189pp. **$45.00**

East-West Joint Venture Contracts: Guide on Legal Aspects of New Forms of Industrial Cooperation

During the last few years, the number of joint ventures established in the central and east European countries has grown at an accelerating pace, reaching more than 5,000 in mid-1990. At the same time, four countries - Bulgaria, Czech Republic, Hungary, and Poland - issued completely new regulations on foreign investment. The new rules of the game are in many respects more attractive to potential foreign investors than the earlier ones. In these circumstances, it may be expected that an ever wider circle of internationally oriented companies will be interested in setting up joint ventures in central and east Europe. When making decisions on where to invest, and when subsequently drawing up the necessary joint venture documentation, companies need up-to-date information on the relevant legislation, as well as guidelines and model documents to be used in the actual drafting work.

The comprehensive legal guide on East-West Joint Venture Contracts was drawn up by the Working Party on International Contract Practices in Industry under the auspices of the UN/ECE Committee on the Development of Trade. Part One sets forth, in 22 sections, guidelines on the drawing up of the joint venture contract itself. Throughout this part, illustrative references are made to the relevant regulations of Bulgaria, Czech Republic, Hungary, Poland, Romania, Slovakia and the former Soviet Union. Part Two reproduces the texts of the basic foreign investment laws of these six countries, which were in force in January 1989. Part Three contains some illustrative models of joint venture documentation.

Sales No. E.88.II.E.30 **ISBN 92-1-116437-0**
Vol.I **224pp.** **$50.00**

International Counterpurchase Contracts

International countertrade is a part of life in contemporary world trade. It can take many forms - counterpurchase, buy-back, barter, switch, etc. The United Nations Economic Commission for Europe (UN/ECE), has now published a Guide which deals with the drawing up of contracts for one of the most important and complex of these forms - counterpurchase.

The purpose of the Guide is to provide potential parties to counterpurchase transactions with a basis for understanding the nature of the arrangement in which they are engaging, to help them identify the problem areas associated with the various components of the deal, and to give them guidance in drawing up the necessary contractual documents which define the rights and obligations of the parties.

Counterpurchase can be defined as a commercial transaction through which the seller agrees as part of his contractual obligations to purchase goods and services from the buyer up to an agreed percentage of his deliveries. Its complexity arises from the fact that it involves the negotiation in parallel of two separate agreements: the sales contract; and the purchasing contract. A typical feature of a counterpurchase transaction is that, contrary to buy-back, there need 'not be any special relationship between the products sold under the primary transaction and those supplied in accordance with the counterpurchase contract.

Sales No. E.90.II.E.3 **ISBN 92-1-116467-2**
Vol.II, Pt.1 **26pp.** **$25.00**

United Nations Economic Commission for Europe
UN/ECE

International Buy-Back Contracts

The United Nations Economic Commission for Europe (UN/ECE) has now published a comprehensive guide on International Buy-back Contracts. The Guide was drawn up by the Working Party on International contract Practices in Industry under the auspices of the UN/ECE Committee on the Development of Trade.

The purpose of the Guide published by the UN/ECE is to provide to potential parties to buy-back transactions a basis for understanding the nature of the arrangement in which they are engaging, to help them identify the problem areas associated with the various components of the deal, and to give them guidance in drawing up the necessary contractual documents which define the rights and obligations of the parties. Further, it discusses the problems relating to buy-back contracts between parties to the primary transaction.

"Buy-back" can be defined as a commercial transaction through which the seller agrees as part of his contractual obligations to purchase goods and services from the buyer up to an agreed percentage of his deliveries, the object of primary transaction being machinery, equipment patents, know-how, or technical assistance that will be used to set up production facilities for the buyer. The parties agree that the seller will subsequently buy from the buyer products produced in those production facilities. As in counterpurchase, both flows of products are paid for in money, and the value of the products bought back may be lower than, equal to or higher than that of the products of the primary transaction.

In order to deal with the problems and difficulties which emerge when negotiating a buy-back agreement, companies need up-to-date information on the relevant legislation, as well as guidelines and model documents to be used in the actual drafting work.

Readers will find the Annex to this publication particularly useful as it contains a model Buy-back Contract and alternative clauses that might be adapted to the specific circumstances of the transaction in question.

Sales No. E.90.II.E.35 **ISBN 92-1-116491-5**
Vol.II, Pt.2 **26pp.** **$25.00**

United Nations Economic Commission for Europe
UN/ECE

ENVIRONMENT

Environmental Protection

Regional Strategy for Environmental Protection and Rational Use of Natural Resources in UN/ECE Member Countries Covering the Period up to the Year 2000

The Regional Strategy covering the period up to the year 2000 and beyond was adopted by the Economic Commission for Europe at its forty-third session in 1988. It deals with environmental problems of a transboundary nature and problems that are common to, or shared among Governments within the UN/ECE region. The critical concerns addressed by this UN/ECE Strategy are grouped under six headings: the Atmosphere; Inland Waters and Seas; Soil Protection and Land Use; Forests; Wildlife and Generic Resources; and Wastes, Toxic Hazardous Chemicals. Not only does the Strategy identify problems and provide an analytical assessment of the various trends, it also sets goals to which UN/ECE Governments will devote attention in the medium and long terms. The Regional Strategy also establishes a series of policy and programme responses aimed at achieving these goals and sets out conditions necessary for its implementation.

Sales No. E.88.II.E.26 **ISBN 92-1-116431-1**
52pp. **$9.00**

National Strategies for Protection of Flora, Fauna and their Habitats - Environmental Series

A report describes general problems of protecting major ecosystems, native flora and fauna and their habitats in the UN/ECE region. It analyses the legislative basis, administration and policy instruments applied in member countries for nature conservation. Methods and techniques to restore damaged or deteriorating ecosystems; measures to protect rare and endangered species and their habitats; and management of protected areas are also covered in this publication.

Sales No. E.88.II.E.2 **ISBN 92-1-116414-1**
No.2 **43pp.** **$14.00**

Declaration on Conservation of Flora, Fauna and Their Habitats

This declaration, adopted by the Economic Commission for Europe at its 43rd session, stresses, *inter alia*, the willingness of UN/ECE Governments to preserve living natural resources in the interests of present and future generations by maintaining essential ecological processes and life-support systems, preserving genetic diversity and ensuring sustainable utilization of species and ecosystems. It also provides for the compatibility of economic activities with natural functioning of ecological systems. It further constructs a framework for concerted efforts to conserve flora and fauna particularly threatened, and migratory species and their habitats.

Sales No. GE.88-40472 **free to Govts., students and journalists**

European Red List of Globally Threatened Animals and Plants

The European Red List, adopted by the Economic Commission for Europe at its forty-sixth session in 1991, is a list of taxa found in Europe which are threatened with extinction on a global scale. It comprises 60 mammals, 28 birds, 37 reptiles, 19 amphibians, 38 freshwater fishes, 238 invertebrates and about 4,500 vascular plants. The list indicates each species distribution in European member countries of UN/ECE, with a reference to species occurrence outside Europe, as well as global species status according to IUCN categories of threat. The list is accompanied by the recommendations on its application.

Sales No. E.91.II.E.34 **ISBN 92-1-116522-9**
153pp. **$29.00**

Code of Practice for the Conservation of Threatened Animals and Plants and Other Species of International Significance

The set of measures agreed upon by the member Governments of the UN/ECE in order to conserve wild animals and plants and to contribute to the maintenance of biological diversity in the UN/ECE region and worldwide. It covers the basic principles of the Code, the conservation priorities and measures to include legislation institutional arrangements, research requirements, education and training, and public awareness. Indicative lists of birds and of mammals with a significant proportion of their global population and range in Europe, are annexed.

Sales No. E.92.II.E.16 **ISBN 92-1-116539-3**
61pp. **$12.00**

United Nations Economic Commission for Europe
UN/ECE

Regional Cooperation to Promote Environmental Protection and Sustainable Development

This brochure describes major achievements of the cooperation promoted within the UN/ECE in the field of environment and sustainable development since the 1950s. It contains a full list of relevant conventions, declarations and policy recommendations.

Sales No. GE.92-22240 **free to Govts., students and journalists**

Impact Assessment

Convention on Environmental Impact Assessment in a Transboundary Context

This Convention was adopted by the Senior Advisers to UN/ECE Governments on Environmental and Water Problems in February 1991 in Espoo (Finland) and has been signed by 28 countries and the European Community. The Convention is the first multilateral treaty to specify the procedural rights and duties of States with regard to the transboundary impacts of their activities. Ratification processes in many countries are well advanced.

E/ECE/1250 **free to Govts., students, and journalists**

Application of Environmental Impact Assessment: Highways and Dams - Environmental Series

Practical experiences with environmental impact assessment (EIA) are set out and analysed in this publication. Based on actual cases from member countries of UN/ECE, collected and studied by a task force led by the Netherlands, the aim was to see how the process worked in particular cases and what it can offer. Information on various national legal and administrative systems for EIA was also gathered for a proper understanding of the case studies. Based on the case-studies of actual projects, key elements responsible for successful application of this instrument are identified. Extensive conclusions and recommendations are also included. Available only in Microfiche.

Sales No. E.87.II.E.14 **ISBN 92-1-116387-0**
No.1 **210pp.** **$25.00**

Application of Environmental Impact Assessment Principles to Policies, Plans and Programmes - Environmental Series

This publication analyses the application of principles of environmental impact assessment (EIA) at the project level to the environmental assessment of relevant policies, plans and programmes, and describes ten country-case studies covering the EIA of policies, plans and programmes. It also contains descriptions of national legal/administrative systems.

Sales No. E.92.II.E.28 **ISBN 92-1-116553-9**
No.5 **48pp.** **$19.00**

Methods and Techniques for Prediction of Environmental Impact

This report contains recommendations adopted by the Senior Advisers on Environmental and Water Problems to UN/ECE Governments on methods for the prediction of the environmental impacts of a proposed activity.

ECE/ENVWA/21 **free to Governments, students and journalists**

Post-project Analysis in Environmental Impact Assessment - Environmental Series

This publication reviews national experience in the field of post project analysis (PPA) in environmental impact assessment on the basis of country case studies and contains recommendations to UN/ECE Governments adopted by the Senior Advisers on Environmental and Water Problems aiming at promoting the application of post-project analysis. National, legal and administrative policies regarding PPA are also provided in this publication. Post-project analysis entails environmental studies to be undertaken following a decision to proceed with a given activity in order to ensure or to facilitate the implementation of the activity in accordance with the terms imposed by the decision and to obtain feedback from the experience gained.

Sales No. E.90.II.E.6 **ISBN 92-1-116471-0**
No.3 **54pp.** **$19.00**

Policies and Systems of Environmental Impact Assessment - Environmental Series

This report contains the recommendations to UN/ECE Governments in the field of environmental impact assessment (EIA) adopted by the Senior Advisers on Environmental and Water Problems. An analysis of national frameworks and systems of EIA as well as criteria for determining environmental significance of projects in the UN/ECE region are also included.

Sales No. E.90.II.E.36 **ISBN 92-1-116492-3**
No.4 **44pp.** **$19.00**

Industrial Accidents

Convention on the Transboundary Effects of Industrial Accidents

This Convention was adopted by the Senior Advisers to UN/ECE Governments on Environmental and Water Problems in March 1992 in Helsinki (Finland) and signed so far by 25 countries and the European Community. It is intended to promote intergovernmental cooperation for the prevention of, preparedness for, and response to the effects of industrial accidents.

E/ECE/1268 **free to Govts., students, and journalists**

United Nations Economic Commission for Europe
UN/ECE

Water

Convention on the Protection and Use of Transboundary Watercourses and Inernational Lakes

This Convention was adopted by Senior Advisers to UN/ECE Governments on Environmental and Water Problems in March 1992 in Helsinki (Finland) and signed so far by 24 countries and the European Community. It is intended to strengthen national and international actions aimed at the protection and ecologically sound management of transboundary waters, both surface and groundwaters.

E/ECE/1267 **free to Govts., students, and journalists**

Two Decades of Cooperation on Water

This publications groups all declarations and recommendations issued by the United Nations Economic Commission for Europe in the field of Water until 1988 and in particular regarding cooperation in the field of transboundary waters. It gives a comprehensive view of UN/ECE role in promoting international cooperation on the protection and sustainable use of the vital natural resource.

Sales No. GE.88-40007 **free to Govts., students, and journalists.**

Charter on Ground Water Management

The UN/ECE charter provides guidelines for the formulation, adoption and implementation of policies and strategies concerning ground water at both national and international level. It is intended to heighten public awareness of the need for concerted action to protect the resources of vital importance for sustaining life, health and the integrity of ecosystems, against pollution and over-use.

Sales No. E.89.II.E.21 **ISBN 92-1-116456-7**
20pp. **$4.00**

Code of Conduct on Accidental Pollution of Transboundary Inland Waters

The UN/ECE code stipulates procedures adopted by UN/ECE member countries for the prevention and mitigation of accidental pollution; for the improvement of preparedness to cope with emergencies; for arrangements for the mutual exchange of information and assistance, as well as for the application of measures to contain, restore and compensate for damage resulting from accidental pollution in transboundary inland waters.

Sales No. E.90.II.E.28 **ISBN 92-1-116485-0**
41pp. **$10.00**

Ground Water Legislation in the UN/ECE Region

A study addressing problems such as ownership status and users-rights, legal systems, implementation of laws and international cooperation. Conclusions are presented along with policies and strategies for management of this vital natural resource. A country-by-country description of ground-water laws and related legal provisions for the UN/ECE region is annexed.

Sales No. E.86.II.E.21 **ISBN 92-1-116372-2**
88pp. **$9.50**

Water Use and Water-Pollution Control: Trends, Policies, Prospects

The report published in 1989 describes current trends and policies and prospects for the future regarding water-resources use and water-pollution control in the UN/ECE region. It contains a general analysis of major developments of common interest to UN/ECE countries: (a) the broadening scope of water management; (b) prevention of damage by water; and (c) prevention of damage to water. The report presents an overview of recent trends in cooperation on transboundary waters and describes the likely priority issues for water management in the 1990s. Broad range of statistical data are given in the form of tables covering all UN/ECE member countries.

ECE/ENVWA/10 **free to Govts., students, and journalists**

Protection of Water Resources and Aquatic Ecosystems

This first volume of the Water Series addresses recent developments in water management with regards to the protection of inland waters and related ecosystems. Part one provides guidelines on the Ecosystem Approach in Water Management, which are intended to assist UN/ECE Governments in the practical application of the ecosystem approach to day-to-day water management. Part two on Water-quality Criteria and Objectives examines methods for assessing the status of surface waters, and for defining water-quality criteria, and objectives in Europe and North America, and contains recommendations to UN/ECE Governments on that respect. Part three on the Prevention and Control of Water Pollution from Fertilizers and Pesticides examines national and international experience gained in coping effectively with the adverse effects of fertilizers and pesticides on the environment in general, and on inland waters in particular.

Forthcoming

United Nations Economic Commission for Europe
UN/ECE

Bilateral and Multilateral Agreements and other Arrangements in Europe and North America on the Protection and Use of Transboundary Waters

Presents in chronological order 127 bilateral and multilateral legally binding agreements and other arrangements, which had been concluded by May 1992. The following information is given: field of application of the agreement; contracting parties; date and place of signature and related dates as to the entry into force and renewal(s) of the agreement; joint body responsible for the implementation of the agreement; and references to sources of information, including bibliographic sources for additional information.

Forthcoming

Air Pollution

Convention on Long-range Transboundary Air Pollution

The Convention on Long-range Transboundary Air Pollution, elaborated within the framework of the UN/ECE, was signed in Geneva in 1979 and entered into force in 1983. It has been ratified by 33 Governments and the European community. This Convention is the first international legally binding instrument to deal with problems of air pollution on a broad multilateral basis. It constitutes the framework within which the Contracting Parties identify problems posed by transboundary air pollution and elaborate protocols on specific pollutants.

E/ECE/1010 **free to Govts., students, and journalists**

Protocol to the 1979 Convention on Long-range Transboundary Air Pollution on Long-term Financing of the Coperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutants in Europe (EMEP)

This Protocol done at Geneva in 1984 entered in force in 1988. Thirty-one UN/ECE countries and the European Community are currently Parties to this Protocol. It is an instrument for international cost-sharing of a monitoring programme which forms the backbone for review and assessment of relevant air pollution in Europe in the light of agreements on emission reduction. EMEP has three main components: Collection of emission data for SO_x, NO_x, VOC_s and other air pollutants; measurement of air and precipitation quality; and modelling of atmospheric dispersion. At present, about 100 monitoring stations in 24 UN/ECE countries participate in the programme.

ECE/EB.AIR/11 **free to Govts., students, and journalists**

Protocol to the 1979 Convention on Long-range Transboundary Air Pollution on the Reduction of Sulphur Emissions or their Transboundary Fluxes by at Least 30 Percent

This Protocol, done at Helsinki (Finland) in 1985, entered into force in 1987. Ratified by 20 Parties to the Convention, it aims at abating one of the major air pollutants. As a result of this Protocol, substantial cuts in sulphur emissions have been recorded in Europe.

ECE/EB.AIR/12 **free to Govts., students, and journalists**

Protocol to the 1979 Convention on Long-range Transboundary Air Pollution Concerning the Control of Emissions of Nitrogen Oxides or their Transboundary Fluxes

This Protocol was adopted in 1988 in Sofia (Bulgaria). It entered into force in February 1991. Of the 26 Signatories, 20 have already ratified the Protocol. This Protocol requires the Parties, as a first step, to freeze emissions of their transboundary fluxes of nitrogen oxides.

ECE/EB.AIR/21 **free to Govts., students, and journalists**

Protocol to the 1979 Convention on Long-range Transboundary Air Pollution Concerning the Control of Emissions of Volatile Organic Compounds or their Transboundary Fluxes

This protocol was adopted in November 1991. It has been ratified by 23 Parties to the Air Pollution Convention. This Protocol offers flexibility to the Parties, which is a completely new feature of this type of international agreement. There are not only options for selection of base year, but also for designation of particular areas within a country in which the reduction obligation will apply, as well as for freeze instead of reduction in countries with very low total emissions.

ECE/EB.AIR/30 **free to Govts., students, and journalists**

Strategies and Policies for Air Pollution Abatement: 1990 Review

A major review prepared by the Economic Commission for Europe in Geneva, which updates the previous reviews on the emission status and trends; national strategies; national policy measures; administrative structures; and international activities concerning air pollution and its abatement. Extensive tables summarizing the data are included in the annexes with conclusions.

Sales No. E.91.II.E.29 **ISBN 92-1-116517-2**
56pp. **$15.00**

United Nations Economic Commission for Europe
UN/ECE

Air-Borne Sulphur Pollution Effects and Control

A technical study describing in detail the effects of sulphur compounds on aquatic ecosystems, soil, ground-water and vegetation, materials, health and visibility. It studies the efficiency and costs of technologies for controlling sulphur emissions or for reducing sulphur content of fuels, modification of combustion gases and the utilization of recovered materials and disposal of used products. It concludes by describing the methodology and data requirements for cost-benefit analysis, providing case studies. Index, charts.

Sales No. E.84.II.E.8 **ISBN 92-1-116307-2**
278pp. **$19.00**

Series: Air Pollution Studies

Air Pollution Across Boundaries (Microfiche)

Specific technical studies on sulphur, nitrogen and other major air pollutants to include; the impact on historical monuments; forest damage in North America, Eastern and Western Europe; efficiency and costs of technologies for controlling emissions; examination of commercially available technologies; and case studies. Available only in Microfiche.

ECE/EB/AIR/5 **Silver halide** **$15.00**
Diazo **$13.00**

Transboundary Air Pollution Effects and Control

Describes technologies for controlling air pollution from motor vehicles; effects of air pollutants on agricultural crops, soil and ground-water.

Sales No. E.86.II.E.23 **ISBN 92-1-116374-9**
No.3 **89pp.** **$11.00**

Effects and Control of Transboundary Air Pollution

A thought-provoking report of wide scope. It assesses air pollution effects on vegetation, soil, freshwater and materials; and evaluates the technical efficiency and costs for controlling pollutant emissions. It analyses sulphur emission control programmes for industrial processes, and provides an overview of existing control technology, particularly fluidized bed combustion and emission controls for nitrogen oxides from stationary sources.

Sales No. E.87.II.E.36 **ISBN 92-1-116410-9**
No.4 **154pp.** **$20.00**

Technologies for Control of Air Pollution from Stationary Sources

Proceedings of a seminar on the control of sulphur and nitrogen oxides from stationary emission sources; includes technical reports on flue gas desulphurization and identification.

Sales No. E.87.II.E.34 **No.39/1**
228pp. **$35.00**

The State of Transboundary Air Pollution: Effects and Control

Includes 1988 annual review of strategies and policies for air pollution abatement in 31 Parties to the Convent ion on Long-range Transboundary Air Pollution; 3rd phase report (1984-86) of the EMEP monitoring programme; executive summary of the 1987 forest damage survey in Europe; survey of freshwater acidification in Europe and North America; guidelines for costing of emission controls. Tables, charts.

Sales No. E.89.II.E.25 **ISBN 92-1-116460-5**
No.5 **104pp.** **$25.00**

The State of Transboundary Air Pollution: 1989 Update

Includes studies on effects of mercury and other heavy metals involved in long-range atmospheric pollution ; economic and cost impacts of air pollution control in eight European countries. Tables, charts.

Sales No. E.90.II.E.33 **ISBN 92-1-116489-3**
No.6 **86pp.** **$25.00**

Assessment of Long-Range Transboundary Air Pollution

Includes an overview of the fourth phase of the EMEP monitoring programme (1987-1989); the executive summary of the 1989 forest damage survey in Europe; reports on economic principles for allocating the costs of reducing sulphur emissions, and on effectiveness of economic and other instruments to reduce air pollution emissions from the transportation sector. Tables, charts.

Sales No. E.91.II.E.18 **ISBN 92-1-116505-9**
No.7 **94pp.** **$25.00**

Impacts of Long-Range Transboundary Air Pollution

Includes the 1991 review of strategies and policies for air pollution abatement in the UN/ECE region; a description of the critical load concept and the role of best available technology in air pollution abatement strategies; the executive summary of the 1990 forest damage survey in Europe; the executive summary of a report on cause-effect relationships in forest decline; and a review of recent research results on effects of acid deposition on atmospheric corrosion of materials. Tables, charts.

Sales No. E.92.II.E.24 **ISBN 92-1-116549-0**
No.8 **130pp.** **$28.00**

State of Transboundary Air Pollution

Contains the 1992 review of strategies and policies for air pollution abatement in the UN/ECE region; results from integrated assessment modelling analysis of sulphur abatement strategies, describing scenarios based on reduction of current deposition in relation to critical loads; and the executive summary of the 1992 report on forest condition in Europe. Tables, charts .

Sales No. E.93.II.E.25 **ISBN 92-1-116574-1**
No.9 **(Forthcoming)** **$25.00**

United Nations Economic Commission for Europe
UN/ECE

Human Settlements

Housing Policy Guidelines

This report provides a basis for the understanding of housing policy issues and assists in the development and discussion of these issues in the UN/ECE region, in particular with a view to meeting the needs of transitional countries. It deals with the general framework of housing policy and its three-stage development after the Second World War, including the preconditions for a functioning housing market and the distribution of responsibilities among different agencies: central administration, local authorities, financial market, building financiers, builders, etc. It also deals with matters related to housing production and broaches land, land development and the financing of housing; and matters related to the housing stock, such as use of dwellings, rent policies, rental housing, housing management and renovation.

Sales No. E.93.II.E.15 **ISBN 92-1-116564-4**
(Forthcoming) **$18.00**

Human Settlements Situation in the UN/ECE Region Around 1980

The survey describes the changing human settlements situation and will thus be of interest both to governments and researchers as it analyses and compares developments in this field in the various UN/ECE countries. In addition to its role as background for the UN/ECE Committee on Housing, Building and Planning's regular review of trends and policies, it also constitutes a point of departure for the elaboration and implementation of various projects. It furthermore provides regional input tot he global report on the human settlements situation prepared by the United Nations Centre for Human Settlements (HABITAT). The survey is the first in a series planned to be published over five years.

Sales No. E.85.II.E.30 **ISBN 92-1-116343-9**
71pp. **$12.50**

Research on Long-term Perspectives for Human Settlements Development in the UN/ECE Region

In the post-war period, the development course of settlements and of systems of settlements had followed a more or less obvious set of influencing factors determining the spatial allocation of resources and the design of structures and communication systems. In this rapid development process, patterns of a built environment have emerged which will probably last for a long time. For a growing number of countries this type of mainly growth-oriented planning and development process has been largely concluded or will soon come to an end. Future planning will have to deal with the much broader task of managing the spatial consequences of a wide range of technological, social and environmental developments.

Sales No. E.86.II.E.20 **ISBN 92-1-116371-4**
107pp. **$12.50**

Long-term Perspectives for Human Settlements Development in the UN/ECE Region

The publication summarizes emerging policy questions and recommendations from the Seminar on Research on Long-term Perspectives for Human Settlements Development. It discusses some of the main factors influencing the future development of human settlements, draws conclusions with regard to future demands and outlines general principles of policies for long-term development. Its aim is to assist governments in policy-making and to provide a contribution to the overall work of the UN/ECE on perspectives of socioeconomic development in the ECE region.

Sales No. E.86.II.E.26 **ISBN 92-1-116376-5**
32pp. **$11.00**

Trends in Research on Human Settlements in UN/ECE Countries

This study is addressed especially to government agencies as well as regional and local administrative bodies responsible for human settlements and spatial-planning policy, although institutions responsible for the programming, financing and supervision of research have not been ignored. The study also deals with questions of particular interest to scientific institutes and individual researchers representing various scientific disciplines related to research and spatial planning.

Sales No. E.90.II.E.9 **ISBN 92-1-116474-5**
37pp. **$10.00**

Forecasting and Programming of Housing

The publication is a synthesis report based mainly on the documents presented and/or distributed at the 1980 Madrid Seminar on Forecasting and Programming of Housing. It also reflects Seminar discussions and the contents of country monographs prepared for the Seminar.

The study consists of five chapters. Chapter 1 reviews the housing situation and production in the UN/ECE region as a background to forecasting. Subsequent chapters treat techniques used in UN/ECE countries to forecast various components of the housing stock, such as vacant and secondary dwellings and replacement needs; programming of new housing production and improvement and modernization at national and local levels; improvement of information systems and suggestions for further study.

Sales No. E.84.II.E.26 **ISBN 92-1-116332-3**
36pp. **$6.00**

United Nations Economic Commission for Europe
UN/ECE

Relationship Between Housing and the National Economy

The publication is the synthesis report of the Seminar on the Relationship between Housing and the National Economy, held in Prague in 1982. It is based on documentation presented at the Seminar and the report of the Seminar and takes into account previous relevant UN/ECE Seminar documents and other reports.

The publication comprises five main chapters and twelve annexes. Chapter 1 summarizes main features of economic developments in the UN/ECE region and basic changes in the sphere of housing which have taken place during the second half of the 1970s. Chapters 2, 3 and 4 accord with the discussion on each of the three themes of the Seminar: Relationships between housing activities and other sectors; Relationships between housing activities and the creation of national income; and Social effectiveness of housing policy. Chapter 5 deals with those conclusions of the Seminar which concern the need for further clarification of terminology along with other improvements for international comparability of applied terms and data. Some major problems requiring further examination are set out in the Conclusions along with suggestions which take into account the context of other UN/ECE projects in the field of the Working Party on Housing. The annexes to the report concentrate in greater detail on some of the valuable insights and information explored in the course of the Seminar.

Sales No. E.85.II.E.16 **ISBN 92-1-116325-0**
60pp. **$8.50**

Rent Policy in UN/ECE Countries

The publication contains a synthesis of the documentation prepared for and discussed at the Seminar on Rent Policy held in Amsterdam in October 1986. It presents detailed information on rent policy in relation to housing production, subsidy systems, housing quality, as well as on rent legislation and recent developments in about 20 East and West European countries.

Sales No. E.90.II.E.29 **ISBN 92-1-116486-9**
53pp. **$23.00**

Building

Study of Regulations, Codes and Standards Related to Energy Use in Buildings

The report contains a general review of regulations, codes and standards issued to limit energy conservation in buildings in the following sixteen UN/ECE countries: Byelorussia; Czech and Slovak Federal Republic; Denmark; Finland; France; German Democratic Republic; Hungary; Norway; Poland; Spain;. Sweden; Switzerland; Turkey; former USSR; United States of America and Yugoslavia. The report also contains more detailed information on regulations, codes and standards in this field issued in four countries (France; German Democratic Republic; Norway and United States of America), as well as a summary of these case studies.

Sales No. E.84.II.E.7 **ISBN 92-1-116189-4**
54pp. **$8.50**

Building Regulations in UN/ECE Countries

The report contains information concerning 25 ECE countries, describing their systems of building regulations. It includes: the official building authorities and other bodies concerned with the legislative framework of construction; means of control and procedures for approval of buildings and building products; means of communication and the scientific research and development work related to building regulations as well as international cooperation in this field. This edition also presents the results of a recent inquiry on the use of references to standards in building regulations.

Sales No. E.85.II.E.14 **ISBN 92-1-116323-4**
201pp. **$15.50**

UN/ECE Compendium of Model Provisions for Building Regulations: Residential Buildings

Traditionally, building regulations consisted mainly of a series of specifications of technical solutions which, on the basis of past experience, were considered satisfactory. This descriptive way of formulating regulatory provisions has the disadvantage of limiting the number of acceptable solutions and thus of impeding the introduction of innovative techniques or new materials. The model provisions contained in the present Compendium have been formulated, as far as possible, in terms of user or performance requirements. This new approach not only removes obstacles to innovation but also makes regulations easier to reconcile across local and national borders.

Sales No. E.90.II.E.40 **ISBN 92-1-116498-2**
66pp. **$20.00**

Working Environment in the Construction Industry: National Policies and Legislation in UN/ECE Countries

The report assesses national experiences of 17 UN/ECE countries in relation to environmental problems arising from construction activities. It summarizes information on national policies and legislation relating to the working environment in the construction field.

Sales No. E.85.II.E.27 **ISBN 92-1-116341-2**
139pp. **$15.00**

United Nations Economic Commission for Europe
UN/ECE

International Harmonization of Building Regulations in the UN/ECE Region

Member Governments of the Economic Commission for Europe have been collaborating for many years in a major undertaking to harmonize building regulations. The work is being pursued by the Working Party on Building of the UN/ECE Committee on Housing, Building and Planning in response to recommendations made in a Policy Statement adopted in 1973. Harmonization constitutes an important way to eliminate technical barriers to trade, as recommended in the Final Act of the Conference on Security and Cooperation in Europe (CSCE, Helsinki, 1975).

The report was prepared by the secretariat at the request of the Working Party on Building. It aims at summarizing progress and it gives an idea of the results and recommendations which are now emerging.

Sales No. E.87.II.E.13 **ISBN 92-1-116385-4**
75pp. **$18.00**

International Harmonization of Approval and Control Rules for Buildings and Building Products

International trade in building products and know-how could be stimulated by reducing technical barriers. Harmonization, on the international level, of the legally binding requirements set in national building regulations and related methods of verification, approval and control constitutes an effective means of reducing these technical barriers to trade.

The report describes main technical obstacles to international trade with building products and provides a model for building product guide, as well as recommendations on acceptance of documentation for product approval and control.

Sales No. E.87.II.E.18 **ISBN 92-1-116391-9**
41pp. **$6.00**

Spatial Planning for Recreation and Tourism in the Countries of the UN/ECE Region

The study is intended to be of value to government bodies responsible for decisions on policy for recreation and tourism as well as for spatial planning decisions. The study seeks to address specific policy areas in the field of housing construction, urban and regional planning, environment, tourism, and socio-economic planning.

For the extrapolation of trends in tourism development, the study presents many useful findings, especially with a view to interpreting such trends to decision-makers at the local level. The organizers of tourist activities - whether national, regional or local - will also gain helpful information. The study is directed as well to researchers who carry out the investigations upon which important decisions are founded.

Finally, the study is aimed especially at furthering international cooperation in the sphere of recreation and tourism.

Sales No. E.88.II.E.20 **ISBN 92-1-116424-9**
22pp. **$9.00**

Directory of Bodies Concerned with Urban and Regional Research

The publication describes the organization of urban and regional research in UN/ECE countries and contains addresses of government ministries, departments, institutions, specialized agencies and universities dealing with research in this field.

Sales No. E.90.II.E.32 **ISBN 92-1-116488-5**
444pp. **$60.00**

Annual Bulletin of Housing and Building Statistics for Europe

The data refer to dwelling stock and structure of dwelling construction, dwellings completed by type of investor and by type of material used for load-bearing structure, energy consumption by household, consumer price and rent indices, value of construction put in place, indices of employment and unemployment in the construction industry, structure of the building industry, input and output price indices for housing construction, production and wholesale price indices of building materials, and production, trade and apparent consumption of cement. The statistics cover the four most recent years and the latest base year (1980). Data are collected by questionnaire or are taken from official national and international sources. The bulletin is issued every September.

Sales No. E/F/R.92.II.E.6 **ISBN 92-1-016268-4**
1991 **129pp.** **$25.00**
Sales No. E/F/R.93.II.E.9 **ISBN 92-1-016277-3**
1992 **(Forthcoming)** **$25.00**

United Nations Economic Commission for Europe
UN/ECE

TRANSPORT

International Transport in Europe: An Analysis of Major Traffic Flows in Corridors

This publication provides a synthesis of the extensive work carried out within UN/ECE on the analysis of major traffic flows in Europe. It addresses the problems which have been caused by the growth of domestic and international traffic in European countries. In an attempt to erase these difficulties and to increase transport efficiency Governments have developed an intermodal approach to international transport and have applied this concept to actual traffic flows. The report outlines in some detail the various aspects of the intermodal approach which advocates an integrated view of modal functions.

As the concern of the Inland Transport Committee of the UN/ECE was primarily directed towards questions connected with international transport, it was considered expedient to envisage the application of such an intermodal concept to international traffic. Subsequently, three transport corridors were identified in which the intermodal approach had been tested:

(i) between Scandinavia and Southern Europe
(ii) between France and the Iberian Peninsula/ Maghreb
(iii) along the Trans-European North-South Motorway (TEM)

For each of the three corridors, an analysis has been carried out on the respective traffic flows. The single market planned for the European Community, the establishment of a European Economic Area and the political, social and economic reforms under way in central and eastern Europe are likely to increase international transport volume still further, thus aggravating existing problems in a number of regions. That may lead Governments to apply in their analyses the intermodal approach as they attempt to cope with heightened traffic flows.

The report provides for those involved in the field of transport research, planning and policy, extensive information on the methodological and practical problems related to the intermodal approach at the international level.

Containers: Towards a New Generation of Inland and Maritime Loading Units

Report based on the UN/ECE *Seminar on the Impact of Increasing Dimensions of Loading Units on Combined Transport* (Geneva, 1-4 September 1992) and studies presented by Governments. Provides detailed information on relevant technical, economic and political aspects linked to the introduction of larger than present containers at the international level. Describes commercial aspects linked to the introduction of larger containers from the shippers perspective explaining technical concepts available for larger containers and the consequences they may have on the organization of the transport chain. Analyses the impact of larger containers for maritime transport, for ports and inland container handling as well as on railway, road and inland water transport.

Sales No. GV.E.93.0.9 **ISBN 92-1-100663-5**
398pp. **$80.00**

Europe's Railways of the '90s: A White Paper

This White Paper is concerned with the future of the railways in international transport in Europe, in competition and/or collaboration with other modes of transport. The single market planned for the European Community (EC) and the process of economic reform in the centrally-planned-economy countries are likely to increase the demand for international transport of passengers and goods. Energy and environmental concerns, as well as increasing congestion, mean that railways will be called upon to carry an increasing share of this traffic. In January 1989 the Inland Transport Committee (ITC) of the UN/ECE decided to elaborate a White Paper with the aim of establishing the requirements for an efficient and coherent international rail transport system in Europe. Governments and international organizations were invited to participate in this undertaking. The White Paper is based on contributions made by international organizations and the Governments of UN/ECE member States. It also takes into account the results of activities carried out within the UN/ECE Meeting of Experts on the Development of a European Railway Network.

Sales No. E.TRANS/SC.2/172 **33pp.**
$25.00

United Nations Economic Commission for Europe
UN/ECE

Transport Information

This annual UN/ECE publication provides a broad picture about recent developments in the transport sector in Europe and North America and reports about current work undertaken by the Inland Transport Committee of the UN/ECE. In particular, it provides detailed information on the status of more than 50 international conventions and agreements covering international transport in Europe and world-wide, contains details on bilateral agreements relating to international road transport, international carriage of dangerous goods and insurance schemes and provides information about national regulations governing weights and dimensions of road vehicles.

Sales No. E.91.II.E.36	**ISBN 92-1-116524-5**	
1991	**123pp.**	**$35.00**
Sales No. E.93.II.E.29	**ISBN 92-1-116580-6**	
1992	**(Forthcoming)**	**$35.00**

TIR Handbook: Customs Convention on the International Transport of Goods under Cover of TIR Carnets

The TIR Handbook provides international transport operators with all necessary information on the principles and functioning of the TIR transit system in a concise form. It is of valuable assistance to transport operators in explaining in detail a variety of Customs secure and permissible procedures and techniques, thus giving them a sound basis for decision making in this field.

The TIR Handbook is a comprehensive and up-to-date reference book on the functioning of the TIR system for Customs Officials. It provides detailed explanations on the interpretation of legal and technical provisions of the TIR Convention thus facilitating the control of the transit procedure and the verification of Customs secure sealing.

The TIR Handbook is an ideal training manual providing detailed insight into the functioning of one of the most important and well-known international transit systems applied by more than 40 countries in the world. The TIR Handbook is an authoritative and comprehensive source of information on the functions and the interpretation of the Customs Convention on the International Transport of Goods under Cover of TIR Carnets (TIR Convention, 1975.

The TIR Handbook contains:

- Comprehensive listing of provisions (articles and annexes) of the TIR Convention
- All explanatory notes which are included in the TIR Convention
- All comments on the interpretation of legal and technical provisions of the TIR Convention as decided upon by the Economic Commission for Europe which is administering the Convention.

Sales No. GV.E.93.0.17	**ISBN 92-1-100667-8**
193pp.	**$60.00**

The TIR Transit System

The booklet provides a review of the experiences made in Europe and the Middle-East with the TIR road transit system which is based on the Customs Convention on the International Transport of Goods under cover of TIR carnets (TIR Convention, 1975) accepted by more than 40 countries worldwide. The booklet provides in particular information on the geographical coverage of the TIR system, on its underlying principles and carnets functioning and describes its major advantages for the transport industry and customs administrations. Finally, it deals with possible future developments of the TIR transit regime world-wide and in light of the progress made in electronic data processing.

Sales No. E.91.VIII.1	**ISBN 92-1-139034-6**
20pp.	**$9.00**

Annual Bulletin of Transport Statistics for Europe

Provides extensive data on transport and related trends in European countries, Canada and the United States of America. It includes rail, road and inland waterway sectors, container transport, goods loaded and unloaded at sea ports, transport by oil pipeline and various international goods transport by means of transport and commodity group. Data are also given on expenditure on roads and on the consumption of energy in transport. Issued annually.

Sales No. E/F/R.92.II.E.4	**ISBN 92-1-016267-6**	
1990	**285pp.**	**$55.00**
Sales No. E/F/R.93.II.E.8	**ISBN 92-1-016276-5**	
1991	**(Forthcoming)**	**$60.00**

Census of Motor Traffic on Main International Traffic Arteries (E-Roads)

This publication presents the results of the 1985 Census of Motor Traffic on Main International Traffic Arteries covering the European E-Road network. The Census of Motor Traffic on Main International Traffic Arteries is undertaken every five years by most European countries on a commonly agreed basis. This requires considerable time for computation both at the national and international level, but ensures a high degree of international comparability of the data published.

The census results are compiled and published by the Secretariat of the Economic Commission for Europe in the form of 11 large scale maps and over 90 pages of tables and charts. Detailed information is provided on the following:

- average daily motor traffic on the European E-Road network
- percentage of trucks using the European E-Road network
- width and average number of lanes of European E-Roads

Sales No. E/F.88.II.E.32	**ISBN 92-1-016224-2**	
1985	**97pp.**	**$85.00**

United Nations Economic Commission for Europe
UN/ECE

Statistics of Road Traffic Accidents in Europe

Presents tables and charts with comprehensive data on accidents and casualties covering Europe and the USA. Also contains data on the number of road vehicles in use, registration of new vehicles, kilometres run by road vehicles and estimates of population and distribution by age groups.

Sales No. E/F/R.92.II.E.8	**ISBN 92-1-016270-6**	
1991	**109pp.**	**$25.00**
Sales No. E/F/R.93.II.E.10	**ISBN 92-1-016278-1**	
1992	**(Forthcoming)**	**$25.00**

Recommendations on the Transport of Dangerous Goods

The UN *Orange Book* contains the recommendations formulated by the Committee of Experts on the Transport of Dangerous Goods of the UN Economic and Social Council. Although the recommendations are addressed primarily to national and international regulatory authorities in order to promote global harmonization of the provisions applicable to transport by air, rail, road, sea and inland waterways, manufacturers and shippers of dangerous goods, of packagings and of tank containers will find here important information concerning future developments. A new edition is issued every two years by the UN/ECE. The eigth revised edition will be available in English, French, Arabic, Chinese, Russian, and Spanish.

Sales No. E.91.VIII.2	**ISBN 92-1-139030-7**
515pp.	**$70.00**
E.93.VIII.1	**ISBN 92-1-139042-7**
(Forthcoming)	**$80.00**

Recommendations on the Transport of Dangerous Goods: Tests and Criteria

A second edition on the tests and criteria decided upon by the United Nations Committee of Experts on the Transport of Dangerous Goods for the purpose of classification of goods to be considered as dangerous for transport. These include the classification of explosive substances and articles; tests for the determination of the self-accelerating decomposition temperature of organic peroxides and other thermally unstable substances; tests and criteria for the classification of fertilizers. Tables, charts and appendices supplement the description of test procedures, classification criteria and evaluation of test results. A supplement is under preparation for the classification of lithium batteries.

Sales No. E.90.VIII.1	**ISBN 92-1-139033-8**
324pp.	**$45.00**

Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be used for Such Carriage (ATP)

The text of the Agreement and the Protocol of signature, with annexes including the original form when they were entered into force on 29 July 1968 with the amendments up to 1 January 1990.

Sales No. E/F R.91.II.E.38	**ISBN 92-1-016263-3**
215pp.	**$26.00**

Agreement Concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts

The status of the Agreement with the annexed regulation and amendments available up-to-date. This is of particular use to governments, specialized agencies and governmental and non-governmental organizations which take part in the work of the Inland Transport Committee and its subsidiary bodies.

Complete set	**$500.00**
Single issue	**$6.00**

European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) and Protocol of Signature

The European Agreement concerning the international carriage of dangerous goods by road (ADR) is also published in a revised edition. This agreement, formulated and kept up to date by the UN/ECE inland Transport Committee, is becoming increasingly important as governments and the European Communities consider implementing its technical provisions not only in international transport but also in domestic movements of dangerous goods. Major changes have been adopted to harmonize the ADR with the provisions for other modes of transport. The 1993 edition comes in two volumes which incorporate all amendments in force as from 1 January 1992. Volume I, contains the agreement and its protocol, Annex A and its appendices (list of dangerous goods, classification, packing conditions, labelling, transport documents). Volume II contains Annex B and its appendices (transport equipment and transport operations).

Sales No. E.92.VIII.1	**ISBN 92-1-139039-7**	
Vols.I&II	**759pp.**	**$85.00**

Convention on Civil Liability for Damage Caused During Carriage of Dangerous Goods by Road: Rail and Inland Navigation Vessels (CRTD)

The CRTD Convention prepared under the auspices of the Economic Commission for Europe has been opened for signature as from 1 February 1990. Given the constant increase in the transport of dangerous goods, the CRTD Convention was established in order to provide a useful and effective instrument for the entire international community to harmonize the fragmentary and sometimes inadequate domestic legislations on the subject. The fundamental objective of the Convention is the adequate and rapid compensation of victims of damage caused during the transport of dangerous goods. The publication contains a detailed commentary to assist Governments in the interpretation and implementation of the Convention.

Sales No. E.90.II.E.39	**ISBN 92-1-116497-4**
78pp.	**$35.00**

United Nations Economic Commission for Europe
UN/ECE

ENERGY

Series: ECE Energy Series

No.1
Energy Efficiency in European Industry

Vigorous energy conservation measures will be essential for continued economic growth between now and the end of the century. Without them, oil imports to Western Europe, Eastern Europe and North America would become so large that they would drive up oil prices and lower economic growth prospects according to projections of the UN/ECE secretariat. This first book of the ECE Energy Series contains chapters on the Future Energy Outlook, Potential Energy Savings, Achievable Energy Savings, Energy Conservation Policies, a Data Base on Energy Efficiency and 80 examples of Energy Efficient Technology for the Industrial Sector which is commercially available in Eastern and Western Europe today. The book gives energy supply and demand projections to the year 2000 including the impact of conservation measures on energy imports and exports.

Sales No. GV.E.88.0.8 **ISBN 92-1-116439-7**
149pp. **$75.00**

No.2
Energy Balances for Europe and North America 1970-2000

This book contains official government energy balances and projections to the year 2000 for all UN/ECE member states. The statistics for past years and the energy forecasts were confirmed by governments in 1988 under the auspices of the Senior Advisers to ECE Governments on Energy. The balances contain data on primary energy production, energy imports and exports, gross consumption and final consumption broken down by industry, transport, household, agriculture, and other consumers. Data for past years cover 1970, 1975, 1980, 1981, 1982, 1983, 1984 and 1985. Energy forecasts are given for 1990 and the year 2000. This book is the most complete and up-to-date source of internationally comparable official government energy statistics for ECE member states.

Sales No. GV.E.88.0.9 **ISBN 92-1-116440-0**
110pp. **$45.00**

No.3
Underground Storage of Natural Gas and LPG

This book has been prepared from the proceedings of a symposium on developments and trends in underground storage of natural gas and liquefied petroleum gas storage held in Paris (France) in May/June 1989, under the auspices of the UN/ECE. This publication describes the role of gas storage in gas market developments and its contribution in balancing gas supply and demand, the role of storage in enhancing security of supply and reliability of service to consumers, as well as regulatory, economic, technical and market factors influencing the selection and operation of various types of storage media in the underground storage of natural gas and LPG. Environmental and safety factors are considered in the development and operation of storage facilities. The report examines and assesses gas storage development in gas enterprises, including all relevant aspects, like costs involved. The report further deals with technical and operational developments in the use of depleted oil and gas fields for storing natural gas as well as with other form of storage media such as abandoned mines, mined cavities and salt cavities. Above-ground installations are reviewed and assessed. The report includes contributions made by participants to the symposium with regard to future outlook and elements of concern in this important sector of energy management.

Sales No. GV.E.90.0.7 **ISBN 92-1-100353-9**
538pp. **$95.00**

No.4
Optimum Use of Primary Energy Resources

This book is the result of a Symposium on energy efficiency throughout the energy system from energy demand to supply options, held in Prague (Czech and Slovak Federal Republic) in June 1989 under the auspices of the UN/ECE. It comprises chapters on Energy policies, Energy demand and trends, heat supply from particular energy sources and combined heat supply systems. In addition it contains conclusions and recommendations concerning east-west trade and cooperation in energy efficient technology. Chapters are based on a selection of reports presented during the symposium ranging from national energy demand profiles in selected ECE member states, to descriptions of advanced energy efficient technologies used in Eastern Europe and in Western countries. These are illustrated with many charts, diagrams and graphic material.

Sales No. GV.E.90.0.8 **ISBN 92-1-100354-7**
227pp. **$60.00**

United Nations Economic Commission for Europe
UN/ECE

No.5
Clean Combustion of Brown Coal and Lignite

This book describes research activities carried out on low caloric value solid fuel technologies in Eastern European ECE member states during 1986 to 1988 as part of an Economic Commission for Europe project supported by the United Nations Development Programme. It provides detailed information on state-of-the-art technologies in Bulgaria, Hungary, Poland, Romania, Turkey, Yugoslavia. Technologies include briquette production and enrichment, gasification and liquefaction of solid fuels, combustion of low caloric value solid fuels in fluidized bed technology and reduction of environmental pollution among many other examples. The book is well illustrated with charts and graphs and contains many tables.

Sales No. GV.E.90.0.9 **ISBN 92-1-100355-5**
185pp. **$50.00**

No.6
Sustainable Energy Developments in Europe and North America

This study develops and analyses projections of energy demand and supply to 2000 and 2010. It analyses the feasibility and sustainability of these projections from a long term and region wide standpoint. It describes policy responses as implemented or envisaged by ECE governments, identifies and discusses the issues relevant to the process of adaptation to environmental cooperation to achieve sustainable energy development in the industrialized countries of the world.

Sales No. E. 91.II.E.2 **ISBN 92-1-116499-0**
217pp. **$60.00**

No.7
Energy Reforms in Central and Eastern Europe: The First Year

This study takes stock of the status of energy reforms in the formerly centrally planned economies of central and eastern Europe as of the end of 1990, defines the tasks ahead and evaluates the implications of these reforms on third countries and international cooperation. The annex contains official energy balances for the east European countries for past and future years.

Sales No. E.91.II.E.17 **ISBN 92-1-116504-0**
61pp. **$25.00**

No.9
Energy Efficient Design

This book is an educational aid for the design of buildings from the perspective of energy efficiency. It can be used alone or in conjunction with a computer programme. The guide does not tell people how to design what an energy efficient building should look like; the emphasis is on principles, not details of design. Because conditions vary greatly between ECE member states and over time, the details of building design are best understood by those people closest to local conditions. Responsibility therefore remains with designers to make the guide work in practice, as befits their own circumstances. It contains chapters on Energy and efficiency, strategies, human factors, environment, economics, architecture, building elements, solar applications, monitoring systems and computer software.

Sales No. E.91.II.E.31 **ISBN 92-1-116519-9**
98pp. **$30.00**

No. 10
East-West Energy Efficiency: Policies and Programmes, Technologies and Who's Who

This publication has been produced by the Energy Efficiency 2000 Project. It comprises the results of the first year of operation of the *Energy Efficiency 2000 Project* compiled to cover three aspects: the policies and programmes; the technologies; and who's who in the field.

Policies and Programmes describes ECE member States' national and international policies, programmes, grants, loan schemes, trade development programmes and technical standards relevant to East-West trade and cooperation. It points out the impact the decline of heavy industries will have on energy consumption, per unit of gross national product. It also identifies ways to establish end-use energy efficiency, reduce pollution, and improve productivity and competitiveness. Charts, diagrams and tables illustrate the points.

Technologies lists the energy-efficient and environmentally sound technologies available and required to increase: production efficiency and management of heat distribution in buildings, household consumption, transport, and sources of renewable energy. Twenty technology profiles and a list of nominated manufacturers and suppliers are used as cases in point. These have been represented at the EE2000 trade fair event or have been nominated by the National Participating Institutions.

Who's Who lists the experts, energy managers, businessmen, bankers and government officials engaged in east-west trade cooperation, energy-efficient and environmentally sound technologies, and the *Energy Efficiency 2000 Project* and its activities. The commercial companies, manufacturers, suppliers and distributors, commercial and development banks, government institutions and agencies, consultancies and service companies, international organizations and non-governmental organizations, and research institutions are covered based on a questionnaire sent to 5000 organizations in the field.

Sales No. GV.E.92.0.21 **ISBN 92-1-100382-2**
241pp. **$55.00**

No.11
Solar Power Systems

This report is a compilation of proceedings and expert technical papers from the Seminar on Solar Power Systems held at the Solar Energy Centre at Alushta near Yalta (22 - 26 April 1991). It reviews the Seminar's work programme for 1990-94, the technological status, economics, applications and competitiveness of small and large size solar electricity systems. It also evaluates progress made during the past fifteen years of solar research and development, and further discusses steps needed to make solar energy a viable and significant source of electricity in the 21st century.

GV.E.93.0.18 **92-1-100668-6**
330pp. **$60.00**

No.13
Gas Networks in Europe: Interconnection and Extension of Gas Networks in Europe

This study launched by the (then) Committee on Gas on the implications of economic reforms in central and eastern Europe on European gas networks, deals with gas demand, supply options, networks and economic political and institutional aspects of enhanced gas transmission systems in Europe.

Sales No. GV.E.93.0.10 **ISBN 92-1-100664-3**
95pp. **$60.00**

General Studies

Prospects for Mining to the Year 2000: Proceedings of the Seminar on Prospects for the Mining Industry to the Year 2000

Without the revenues from minerals and metals, many mineral-producing countries would be unable to pay for imports and service their debt. However, over the last years, the terms of trade between exported minerals and imported equipment have seriously deteriorated. The deep depression of metal prices from 1981 to 1986 led many to question the future for minerals and metals.

The question about the future of minerals and metals does not only concern the base metals used extensively in industrial development (iron, copper, nickel, lead, zinc, aluminium), but also the precious minerals and metals generating ready cash (gold, diamonds, silver), the agricultural minerals (phosphates, potash), as well as industrial minerals and construction materials.

The United Nations' Department of Technical Co-operation for Development (UN/DTCD), through its Natural Resources and Energy Division convened an international conference on "Prospects for Mining to the Year 2000," in order to provide up-to-date information to developing countries on the rational policies for conscious mineral development planning.

The important issues discussed, such as the evolution of metals consumption and the policies and strategies which the major participants, governments and mining companies, might pursue, are addressed in this compilation of papers submitted at the Interregional Seminar held in 1989 in New York. It gives active participants in the mining industry a better understanding of developing countries' needs and concerns for mineral development.

Sales No. GV.E.92.0.3 **ISBN 92-1-100371-7**
256pp. **$95.00**

International Codification System for Medium and High-Rank Coals

This document describes a new international codification system enabling producers, sellers and purchasers of coal to communicate unambiguously with regard to the quality of coals traded or used. The system is applicable to all coals of different origin, geological age and deposit as well as to single seam and multi-seam blends. The system replaces the 1956 Codification System.

Sales No. E.88.II.E.15 **ISBN 92-1-116420-6**
26pp. **$18.00**

United Nations Economic Commission for Europe
UN/ECE

AGRICULTURE & TIMBER

Agriculture

Agricultural Review for Europe (Volumes I-IV)

Volume I - **Agricultural Trade**
Recent developments in agricultural trade in Europe.
Sales No. E.93.II.E.21 **ISBN 92-1-116570-9**
1991/92 **33pp.** **$22.00**

Volume II - **The Grain Market**
Review of the grain situation and outlook for supply and demand. Overall review. Wheat and coarse grains.
Sales No. E.93.II.E.24 **ISBN 92-1-116573-3**
1991/92 **46pp.** **$18.00**

Volume III - **The Livestock and Meat Market**
The European market for live cattle, live pigs, live sheep, poultry and game.
Sales No. E.932.II.E.19 **ISBN 92-1-116568-7**
1991/92 **118pp.**
$352.00

Volume IV - **The Milk and Dairy Products Market**
Information on production, consumption and prices of milk, butter, cheese, whole milk, skim milk and whey powders, condensed milk and casein.
Sales No. E.93.II.E.20 **ISBN 92-1-116569-5**
1991/92 **67pp.** **$20.00**

Prices of Agricultural Products and Selected Inputs in Europe and North America

Annual ECE/FAO Price Review. The review is issued on an annual basis. It has information on general changes in agricultural price policies and in prices received by farmers; prices of individual agricultural products; prices of selected inputs.
Sales No. E.93.II.E.22 **ISBN 92-1-116572-5**
1991/92 **130pp.** **$26.00**

UN/ECE General Conditions of Sale

These General Conditions have been prepared by the Group of Experts on International Trade practices Relating to Agricultural Products. Annexed to the General Conditions are Rules of Survey (Valuation) which, in the event of dispute on the goods, enable the problem to be settled by experts chosen from lists of experts appointed by the competent trade bodies. A second annex contains a country by country list of these trade bodies.

UN/ECE General Conditions of Sale for Fresh Fruit and Vegetables including Citrus Fruit
Sales No. E.79.II.E.21 **ISBN 92-1-116252-1**
61pp. **$10.00**

UN/ECE General Conditions of Sale for Potatoes
Sales No. E.79.II.E.30 **ISBN 92-1-116277-7**
60pp. **$10.00**

UN/ECE General Conditions of Sale for Dry (shelled and unshelled) and Dried Fruit
Sales No. E.79.II.E.15 **ISBN 92-1-116251-3**
50pp. **$10.00**

UN/ECE Standards for Fresh Fruit and Vegetables

Defines commercial quality characteristics required at export control stage and quality levels ("Extra", Class I, Class II) for use in international trade. Standards for 46 items and Geneva Protocol, Standard Layout and Labelling guidelines. Lists countries accepting the standards. Indispensable for all those dealing with the production, sales, import or export of fresh fruit and vegetables.
Sales No. E.91.II.E.42 **ISBN 92-1-16532-6**
419pp. **$50.00**

UN/ECE Standards for Dry and Dried Fruit

Defines commercial quality characteristics required at export control stage and size and quality classification ("Extra", Class I, Class II) for use in international trade. Standards for 10 items and the Geneva Protocol, Standard Layout, and Methods of Determining Moisture Content for dry and dried fruit. Indispensable for all those dealing with the production, sales, import or export of dry and dried fruit.
Sales No. E.91.II.E.43 **ISBN 92-1-116533-4**
127pp. **$19.00**

United Nations Economic Commission for Europe
UN/ECE

UN/ECE Standard for Eggs-in-Shell and Explanatory Brochure

Defines commercial quality characteristics and levels of quality ("Extra", Class A and B) and size classifications for use in international trade. Explanatory brochure illustrates defects affecting eggs in shell. Essential in commercial egg production, quality control, sale, export or import of eggs in shell.

Sales No. E.90.II.E.10 **ISBN 92-1-116475-3**
32pp. **$14.00**

UN/ECE Standard for Poultry Meat and Explanatory Brochure

Defines commercial quality characteristics and levels of quality (classes A and B) for use in international trade. Explanatory Brochure illustrates defects affecting poultry carcass and cuts. Essential for commercial production, quality control, sale, import, or export of poultry meat.

Sales No. E.90.II.E.11 **ISBN 92-1-116476-1**
(Forthcoming) **$15.00**

Timber

European Timber Trends and Prospects to the Year 2000 and Beyond

This study is intended above all as a tool for decision-makers and their advisers, governments, forest owners, forest industries, traders in forest products and others who have an interest in the outlook for the forest and forest products sector. Its objectives are the following:

(a) To present and analyse past trends in the forest and forest products sector which may affect the outlook for the future;
(b) to prepare forecasts, wherever possible in quantitative terms, for consumption and supply of forest products, and of non-wood goods and services, and to examine the outlook for the sector as a whole by comparing the various forecasts.

Great importance has been attached at every stage to presenting the source of data, evaluating their quality and presenting the methods of analysis used, so that readers will be able to evaluate the quality of the forecasts and prepare their own alternative forecasts.

Sales No E.86.II.E.19 **ISBN 92-1-116368-4**
Vols.I&II **576pp.** **$120.00**

Timber Trends and Prospects for North America

The publication of the study in 1990 completed the series of long-term analyses of the forestry and forest products sector in the different parts of the UN/ECE region. After analysing domestic supply potential and demand for forest products in Canada and the United States, it assesses the region's future role as a major supplier to the rest of the world.

Sales No. E.90.II.E.4 **ISBN 92-1-116468-0**
68pp. **$32.00**

Outlook for the Forest and Forest Products Sector of the USSR

A companion study to European Timber Trends and Prospects to the Year 2000 and Beyond, in which developments in the former Soviet Union's forestry and forest industry sector are analysed and forecasts are made. Given the timing of the study, full account could not be taken of the political and economic changes currently under way, but the possible impact of *perestroika* on the forestry and forest products sector is discussed. Preparations have begun for the next in the series of long-term studies on Europe, scheduled for publication in 1996.

Sales No E.89.II.E.24 **ISBN 92-1-116459-1**
105pp. **$32.00**

Forest Resources of the Temperate Zones: Main Findings of the UN-ECE/FAO 1990 Forest Resource Assessment

A survey covering the developed temperate zones of Europe, including Cyprus, Israel and Trukey, the former USSR, North America (Canada and the United States of America) and Japan, Australia and New Zealand. Information on the distribution of forest and other wooded land; changes in area of forest and other wooded land 1980-1990; standing volume and growing stock; volume and mass of woody biomass; annual increment; fellings and removals; comparison with previous assessments; importance of forest functions; forest products other than wood; policy and planning activities relating to forest functions; areas of public concern and conflicts between forest functions are all quantified and analysed.

Sales No. E.92.II.E.23 **ISBN 92-1-116548-2**
Vol.II **32pp.** **$13.00**

Forest Resources of the Temperate Zones

A report based on a national enquiry on the role of forests in supplying environmental and other non-wood goods and services. Volume one includes data on land use classification; types of forest and other wooded land; species groups; stocked and unstocked forest land; exploitable and unexploitable forest and other wooded land; ownership and management status; number and size distribution of holdings; and change in area over the decade 1980-1990.

General Forest Resource Information
Sales No. E.92.II.E.27 **ISBN 92-1-116552-0**
Vol.I **350pp.** **$55.00**
Benefits and Functions of the Forest
Vol.II

United Nations Economic Commission for Europe
UN/ECE

The Forest Resources of the ECE Region (Europe, the former USSR, North America)

This publication continued the series of forest resource assessments carried out by FAO and the UN/ECE. Compared to earlier surveys, it was expanded to include parts relating to tree biomass and to the environmental and other non-wood functions of the forest, in addition to general forest inventory data. The three parts of the publication are as follows:

Part I - General forest resource inventory data
Part II - The volume and mass of tree and other woody biomass
Part III - The role of the forest in supplying environmental and other non-wood goods and services.

Sales No. E.85.II.E.31 **ISBN 92-1-116344-7**
220pp. **$21.00**

Timber Bulletin

The Timber Bulletin is published on a regular annual basis and as of 1992 will consist of seven issues. Each issue (except for No. 7 - a special issue, the scope of which varies according to the output from the Timber Committee's programme) has the same coverage from year to year. For 1992, the seven issues of Volume XLV are as follows:

No. 1: **Monthly Prices for Forest Products**
A selection is made of the price series which appear to be representative of the product groups in question and to have some importance for the international market.

No. 2 and 6: **Forest Products Statistics**
A compilation of statistics on production, exports and imports in the UN/ECE region of the main forest products.

No. 3: **Annual Forest Products Market Review**
The Annual Review is intended to provide the reader with statistical information, supplemented with a commentary, on recent developments and the current situation of the forest products markets in the UN/ECE region.

No. 4: **Forest Products Trade Flow Data**
Annual data on trade flows of forest products.

No. 5: **Forest Products Markets in 1992 and Prospects for 1993**
Contains an analysis of the markets for forest products undertaken by the Timber Committee at its annual session in October.

No. 7: **Long-term Series of Roundwood Prices**
The results of a project conducted by specialists from Finland to compile series of prices for specified assortments of roundwood in selected countries of Europe and North America.

Annual Subscription **$95.00**
Single Issue **$15.00**

International Forest Fire News

A biannual round-up of information on forest fire prevention and control from around the world, including announcements of forthcoming meetings and other events.

Free of charge

United Nations Economic Commission for Europe
UN/ECE

INDUSTRY & TECHNOLOGY

Engineering Industry

Annual Review of Engineering Industries and Automation

Provides detailed analysis of the performance in production, prices, investment, employment, trade, and research and development of total engineering industries and subsectors such as machine tools, industrial robots, computers and telecommunications. The analysis is based on data supplied by UN/ECE member countries as well as from the OECD, industrial organizations, conferences and symposia.

Sales No. E.93.II.E.5 **ISBN 92-1-116560-1**
1991 **Vols.I&II** **274pp.** **$50.00**

Low-waste Technologies in Engineering Industries

This study analyses those new technologies, means of automation and new methods of design and management of production which may help achieve sustainable development in industry. It examines in particular the use of low-waste technologies in the processing of metals and plastics, and trends in the development of computer-aided production. There are chapters on the role of international standards and on the experiences of Poland, Bulgaria and the former USSR with low-waste technologies.
(Forthcoming)

Food-Processing Machinery Including Packaging Techniques

A study on global developments in the food-technologies industries in the UN/ECE region. Current trends and foreseeable developments are summarized in order to illustrate the expected growth of the regional food-processing complex and its adaptation to new challenges. It contains 109 tables, 12 figures, and contributions from 14 countries.

Sales No. E.91.II.E.30 **ISBN 92-1-116518-0**
214pp. **$40.00**

Engineering Industries: Dynamics of the Eighties

An in-depth study and assessment of the role and place of engineering industries in national and world economies over the period 1979 to 1986. The study illustrates the place of engineering industries in total industry and manufacturing and shows the contribution (share) of the sector to national and regional economies in terms of production, investment, employment, research and development. It examines the performance of each of the five sub-sectors of the engineering industries and analyses long- and medium-term trends and developments in international trade in engineering products. It also includes a number of national contributions from countries of Europe and North America. It concludes with a review of current trends and foreseeable developments in engineering industries and draws conclusions from the study. 197 tables, 24 figures.

Sales No. E.88.II.E.34 **ISBN 92-1-116438-9**
289pp. **$48.00**

Software for Industrial Automation

This study is an invaluable source of information for all managers and professionals interested in the prospects of software application and other aspects and includes a review and analysis of advanced software and relevant case-studies. Perhaps uniquely, the book provides information on prospects in East European countries. Also available in French and Russian.

Sales No. E.87.II.E.19 **ISBN 92-1-116392-7**
208pp. **$35.00**

The Telecommunication Industry - Growth and Structural Change

Rapid technological advances in computers, electronics, optoelectronics and telecommunication systems are profoundly influencing growth and structural change in the world-wide telecommunication industry. Besides reviewing the major technological trends, the study analyses the competitive situation, market structures and some 100 joint ventures or acquisitions between telecommunication companies. The study also reviews the present and medium-term demand for various types of telecommunication equipment in several different markets. The investment plans of 15 countries for digitalization of networks, ISDN, cellular radio telephony, etc. are also analysed. 119 tables, 51 graphs, bibliography.

Sales No.E.87.II.E.35 **ISBN 92-1-116409-5**
292pp. **$50.00**

United Nations Economic Commission for Europe
UN/ECE

Digital Imaging in Health Care

This publication reviews the rapid development and application of radically new techniques in digital imaging in health care. It describes medical equipment and advanced systems and provides unique information on international trends and prospects for the technologies. It includes trade and market projections and a survey of manufacturers and on-going research. Also available in French and Russian.

Sales No. E.86.II.E.29 **ISBN 92-1-116380-3**
174pp. **$48.00**

Chemical Industry

Directory of Chemical Producers and Products: Chemical Enterprises in Central and Eastern Europe - Part 1 of Volume 1

This publications lists chemical enterprises in central and eastern Europe including those located in all the Republics of the former Soviet Union. Enterprises are listed alphabetically, by country, and addresses, contract numbers and a brief description of product lines are provided, The information on enterprises will be linked directly to the second volume of the directory on chemical products, Future issues of Volume I covering the Mediterranean region and other UN/ECE member countries, and Volume II on chemical products will be published in the course of 1993 and 1994.

Sales No. E.93.II.E.7 **ISBN 92-1-116562-8**
186pp. **$85.00**

Directory of Chemical Producers and Products: Chemical Manufacturers' Associations and Related Organizations - Volume III

This publication lists global, regional and national chemical associations. In the case of countries where no industry association exists, the directory provides details of other institutions such as chambers of commerce, ministries or state enterprises that deal with the chemical industry.

Sales No. E.93.II.E.17 **ISBN 92-1-116566-0**
78pp. **$30.00**

Management of Plastic Wastes in the ECE Region

The study describes current and projected levels of production and consumption of plastics in UN/ECE member countries. It reviews developments in reduction, recovery, recycling and disposal in the field of plastic waste management and related legislation. It also reflects the individual approaches of some countries to issues related to the growing volume of plastic waste in the agricultural, automotive, construction, distribution, household and industrial sectors.

Sales No. E.93.II.E.3 **ISBN 92-1-116557-1**
200pp. **$42.00**

Annual Review of the Chemical Industry

This review analyses trends and developments in the production, consumption, prices and trade in chemical products in Europe and North America. It provides an overview of developments in major branches of the chemical industry and contains a separate section on national developments contributed by authorities in UN/ECE member Governments. The review includes two statistical annexes - one providing aggregate data for the chemical industry, and the second general chemical industry data and statistics on production, imports and exports of some 74 selected chemical products.

Sales No. E.93.II.E.27 **ISBN 92-1-116578-4**
1992 **(Forthcoming)** **$42.00**

Substitutes for Tripolyphosphate in Detergents

An analysis of the current situation and possible future developments for the replacement of tripolyphosphate in the manufacturing of detergents in view of reducing their ecological effect. The study deals with the composition of currently manufactured detergents, the functions of their particular ingredients, the effect of phosphates on the environment, and related legislations in countries of the UN/ECE. The study is an important contribution addressing the technological and ecological questions of tripolyphosphate replacement.

Sales No. E.91.II.E.33 **ISBN 92-1-116521-0**
170pp. **$26.00**

Engineering Plastics

A study on technical developments in the production and consumption of engineering plastics. Statistics cover polycarbonates, polyamides, polyesters, polyphenylenes, fluorine-containing plastics, acrylics and styrene copolymers in engineering industries, electronics, the automotive industry, and construction. The chapters include modifications of engineering plastics; plastics and the environment; and the market for engineering plastics in the market-economy countries.

Sales No. E.91.II.E.32 **ISBN 92-1-116520-2**
107pp. **$30.00**

Rational Use of Water and its Treatment in the Chemical Industry

This study analyses the present situation and new developments in the rational use of water and in several technological processes used for the treatment of industrial waste water. In addition to presenting the mechanical, physio-chemical and biological methods, the study introduces new technologies, such as membrane technology, and gives concrete examples of their application in petroleum and petroleum processing, and in the petrochemicals, fertilizers, pulp and paper, and man-made fibre sectors of the chemical industry.

Sales No. E.91.II.E.3 **ISBN 92-1-116500-8**
146pp. **$38.00**

United Nations Economic Commission for Europe
UN/ECE

Membrane Technology in the Chemical Industry

This study describes the most significant membrane processes being used by the chemical industry, among them micro-filtration, ultrafiltration, reverse osmosis or electrodialysis. According to the study, these processes have been widely applied in the purification of waste waters, concentration and separation of components, biotechnology and the production of certain chemicals (examples are given). The different separation mechanisms and membranes used, and their advantages are analysed. Special attention is paid to gas separation membranes, which are used in the chemical and petrochemical industries, mainly for the recovery of valuable substances from gaseous wastes. An essential feature of membrane technology, namely its economics, is discussed in a separate chapter covering the cost of operation and equipment, and the minimum overall cost. The study gives an idea of possible future developments in the industrial application of membranes. The publication also provides the reader with a list of major European suppliers of membranes, membrane modules and membrane process equipment (their characteristics and applications).

Sales No. E.89.II.E.28 **ISBN 92-1-116465-6**
91pp. **$23.00**

Steel Industry

The Steel Market

This annual review describes the principal trends and developments in the international steel market as well as in supply and demand, foreign trade, export prices and production capacities for countries in western and eastern Europe, North America, Asia and Latin America. A separate section provides an overview of trends in demand for, and prices of, iron- and steel-making raw materials. Part II of the review contains monographs prepared by the national authorities of UN/ECE member countries. Published annually in one volume.

(Forthcoming) **1992**

Steel Product Quality and Maximum Utilization of Scrap

This study establishes the basic economic relations between various scrap properties and pig-iron utilization, which are the raw materials for steel-making. It presents general considerations about steel and scrap quality, defines clean steels, gives notions of higher and lower quality scrap, explains the foundations of scrap classifications, and presents scrap-related environmental considerations. Moreover, it examines the quantitative assessment of ferrous scrap availability, describes methods for preparing scrap including scrap upgrading technologies, and analyses the structure of steel-making costs. The study comprises four chapters and three annexes, which contain national monographs and national scrap classifications.

Sales No. E.92.II.E.25 **ISBN 92-1-116550-4**
1992 **200pp.** **$55.00**

The Importance of the Iron and Steel Industry for the Economic Activity of UN/ECE Member Countries

The study traces developments in the steel industry since 1945, with particular emphasis on the changes which have taken place in productivity, employment, diversification of ownership and the major determinants of the evolution of steel demand and supply. It analyses the importance of the steel industry in the economy and describes its structure. An exposé is given of the present problems of the industry and suggestions are made as to ways of resolving them. In one of the annexes, a number of national monographs are reproduced providing information on developments in the iron and steel industry in selected countries and regions.

Sales No. E.89.II.E.22 **ISBN 92-1-116457-5**
216pp. **$45.00**

Structural Changes in International Steel Trade

A definitive study which analyses the structural changes which are taking place in the export of steel products from various countries and regions of the world, covering in particular the changes in geographic orientation of total export deliveries, as well as the structural changes therein and evaluating the relative importance of each principal exporter and/or exporting region. It also analyses the structural changes in the imports of steel products of various countries and in foreign steel trade balances. 99 tables, 5 figures.

Sales No. E.87.II.E.33 **ISBN 92-1-116408-7**
152pp. **$23.00**

United Nations Economic Commission for Europe
UN/ECE

Series: UN/ECE Steel Series

Iron and Steel Scrap

A fifth updating of a study presenting the main trends and outlook of the evolution of available resources and utilization of iron and steel scrap in countries of western and eastern Europe, the United States, Japan and Mexico, by region and by country. Despite a decrease in scrap availability induced by the general use of continuous casting lines, it is expected that scrap resources should increase globally during the coming year as a result of the increase of scrap collection.

Sales No. E.91.II.E.37 **ISBN 92-1-116525-3**
1991 **139pp.** **$25.00**

The Recuperation and Economic Utilization of By-products of the Iron and Steel Industry

This study is based on national monographs and material received from specialized institutes and organizations. It contains the definition and classification of by-products and secondary energy sources of the iron and steel industry. It examines the current situation and principal trends in, as well as the impact of technological and economic trends on, the recuperation and utilization of by-products and secondary energy resources of the iron and steel industry and describes some technological processes aimed at a better utilization of secondary energy resources. One of the annexes contains six monographs giving the state of the art in the recuperation and economic utilization of by-products in selected countries.

Sales No. E.90.II.E.13 **ISBN 92-1-116478-8**
231pp. **$42.00**

United Nations Economic Commission for Europe
UN/ECE

STATISTICS

Energy

Annual Bulletin of General Energy Statistics for Europe

The scope of the statistics in this publication comprises production of energy by form, an overall energy balance in a common unit of measurement (terajoule) and deliveries of petroleum products for inland consumption. The data are collected by questionnaire from some 30 member countries and each bulletin contains statistics for the last two years.

Sales No. E/F/R.92.II.E.11 **ISBN 92-1-016273-0**
1990 **185pp.** **$30.00**
Sales No. E/F/R.93.II.E.13 **ISBN 92-1-016283-8**
1991 **(Forthcoming)** **$40.00**

Annual Bulletin of Electric Energy Statistics for Europe

The data refer to capacity of plants, production, consumption, supplies to consumers, fuel consumption in power plants and corresponding production of electric energy as well as international exchanges of electric energy. The latest base year (1980) and the four most recent years are included in each bulletin and some 31 UN/ECE countries provide inputs to this publication. The data are mostly presented in GWh and are collected from the countries by questionnaire.

Sales No. E/F/R.93.II.E.12 **ISBN 92-1-016281-1**
1991 **138pp.** **$35.00**

Annual Bulletin of Coal Statistics for Europe

The data in the bulletin refer to production, stocks, consumption and trade of various types of solid fuels (hard coals, patent fuel, coke, brown coal and, brown coal briquettes), as well as employment and labour productivity in hard and brown coal mines. Each bulletin includes data for the two most recent years and the latest base year (1980) and some 30 UN/ECE member countries are included. The data are given in 1000 tons and are collected by questionnaire from the various countries.

Sales No. E/F/R.92.II.E.12 **ISBN 92-1-016274-9**
1992 **132pp.** **$25.00**
Sales No. E/F/R.93.II.E.14 **ISBN 92-1-016284-6**
1993 **(Forthcoming)** **$35.00**

Annual Bulletin of Gas Statistics for Europe

The data cover production, stocks, consumption and trade of natural gas, light petroleum gases, other petroleum gases and manufactured gases, and show the average calorific values of these gases in terajoules. The number of household consumers of gas and length of mains for transport are also given. All data are collected by questionnaire and some 30 UN/ECE member countries provide input for this publication. Each bulletin contains data for the latest base year (1980) and the two most recent years.

Sales No. E/F/R.92.II.E.9 **ISBN 92-1-016271-4**
1991 **$25.00**
Sales No. E/F/R.93.II.E.11 **ISBN 92-1-016280-3**
1992 **(Forthcoming)** **$35.00**

Environment

Environment in Europe and North America: Annotated Statistics - Statistical Standards and Studies

Annotated statistics on some of the major environmental indicators and issues facing Europe and North-America, and statistics concerning agriculture in particular. Environmental resources, protection expenditures and facilities, the treatment of waste residuals, agricultural climate, output, and impact are covered as are the legislative and economic measures to reduce the impact of farming.

Sales No. E.92.II.E.14 **ISBN 92-1-116537-7**
No.42 **366pp.** **$54.00**

United Nations Economic Commission for Europe
UN/ECE

Housing and Building

Annual Bulletin of Housing and Building Statistics for Europe

The data refer to dwelling stock and structure of dwelling construction, dwellings completed by type of investor, energy consumption by household, consumer price and rent indices, value of construction put in place, indices of employment and unemployment in the construction industry, structure of the building industry, input and output price indices for housing construction, production and wholesale price indices of building materials, production, trade and apparent consumption of cement, average size and distribution by number of persons per household and tenure status, and occupied conventional dwellings and persons in occupied conventional dwellings by number of rooms and number of persons. The statistics cover the four most recent years and the latest base year (1980). Data are collected by questionnaire or are taken from official national and international sources. The bulletin is issued in September every year.

Sales No. E/F/R.92.II.E.6 **ISBN 92-1-016268-4**
1991 **129pp.** **$25.00**
Sales No. E/F/R.93.II.E.9 **ISBN 92-1-016277-3**
1992 **(Forthcoming)** **$25.00**

Recommendations for the 1990 Censuses of Population and Housing in the UN/ECE Region

The recommendations set out in this document were drawn up at meetings convened over the 1984-1987 period. The scope is limited to three elements a) a list of basic topics which countries should cover in their censuses, and recommended definitions and classifications for each of the basic topics; b) a list of additional topics which countries may wish to consider including in their censuses, and suggested definitions and/or classifications for some of the additional topics; and c) a recommended basic tabulation programme, with illustrative sketches of the scope and contents of the recommended tabulations.

Sales No. E.87.II.E.38 **ISBN 92-1-116412-5**
116pp. **$25.00**

Transport and Traffic

Annual Bulletin of Transport Statistics for Europe

The scope of the statistics in this bulletin comprises the rail, road and inland waterway sectors, container transport, goods loaded and unloaded in seaports, transport by oil pipeline and international goods transport by various modes of transport and commodity group. The length of networks, number, capacity and power of vehicles as well as the expenditure on roads and the consumption of energy in transport are also given. Most tables show data for the two most recent years and latest base year (1980) and cover some 30 UN/ECE member countries. All data are collected by questionnaire from the countries concerned. The bulletin is issued in February every year.

Sales No. E/F/R.92.II.E.4 **ISBN 92-1-016267-6**
285pp. **$55.00**
Sales No. E/F/R.93.II.E.8 **ISBN 92-1-016276-5**
(Forthcoming) **$60.00**

Statistics of Road Traffic Accidents in Europe

The statistics in this bulletin comprise road traffic accidents involving personal injury only. The data are distinguished by nature of accidents and surrounding, accidents due to the influence of alcohol, and the number of persons killed or injured by category of road user and age group. Data on the number of road vehicles in use, registration of new vehicles and vehicle-kilometres are also provided. Most tables contain data for the two most recent years and the latest base year (1980) and cover some 28 UN/ECE member countries. All data are collected annually by questionnaire. The bulletin is issued in February every year.

Sales No. E/F/R.92.II.E.8 **ISBN 92-1-016270-6**
1991 **109pp.** **$25.00**
Sales No. E/F/R.93.II.E.10 **ISBN 92-1-016278-1**
1992 **(Forthcoming)** **$25.00**

Industry

Annual Bulletin of Steel Statistics for Europe

The statistics provide basic data on the development of steel production and trade, consumption and trade of raw materials, movements of scrap, consumption of energy in the steel industry and steel deliveries to consuming industries in European countries, Canada, the United States of America and Japan. Data are collected by questionnaire or are taken from official national and international sources.

Sales No. E/F/R.93.II.E.6 **ISBN 92-1-016275-7**
1991 **94pp.** **$25.00**

United Nations Economic Commission for Europe
UN/ECE

Statistics of World Trade in Steel

The data refer to exports of semi-finished and finished steel products by exporting country, by commodity, by region and country of destination; and to total trade in semi-finished and finished steel products between the countries in the UN/ECE region. The statistics refer to the latest calendar year. Selected time series are also provided in summary tables. Data are collected by questionnaire or are taken from official national sources.

Sales No. E/F/R.90.II.E.17	**ISBN 92-1-016242-0**	
1989	**91pp.**	**$25.00**
Sales No. E/F/R.91.II.E.12	**ISBN 92-1-016257-9**	
1990	**(Forthcoming)**	**$25.00**

Bulletin of Statistics on World Trade in Engineering Products

The statistics cover approximately 98 per cent of total world exports of engineering products broken down by region and country of destination, by main exporter and by commodity group. The statistics refer to the latest calendar year. Selected time series are also provided in summary tables. Data are collected by questionnaire or taken from official national sources.

Sales No. E/F/R.92.II.E.7	**ISBN 92-1-016269-2**	
1990	**570pp.**	**$55.00**

Annual Bulletin of Trade in Chemical Products

Data cover total value of production and gross fixed capital formation in the chemical industry; annual average increases in main aggregates; index numbers of production by branches of chemical industry; employment; production and trade of selected chemicals by SITC groups and by origin of imports and destination of exports. Total chemical production, individual commodity production and exports/imports data refer to the 2 or 3 latest years. Average annual increases over the last 8 to 10 years are also shown. Data are collected by questionnaire.

Sales No. E/F/R.91.II.E.28	**ISBN 92-1-016262-5**	
1989	**286pp.**	**$45.00**

United Nations Economic Commission for Europe
UN/ECE

TITLE INDEX

A

Agreement Concerning the Adoption of Uniform Conditions 22
Agreement on the International Carriage of Perishable 22
Agricultural Review for Europe (Volumes I-IV) 26
Agricultural Trade 26
Air Pollution Across Boundaries (Microfiche) 16
Air-Borne Sulphur Pollution Effects and Control 16
Annual Bulletin of Transport Statistics for Europe 21
Annual Bulletin of Coal Statistics for Europe 33
Annual Bulletin of Electric Energy Statistics 33
Annual Bulletin of Gas Statistics for Europe 33
Annual Bulletin of General Energy Statistics 33
Annual Bulletin of Housing and Building Statistics 19, 34
Annual Bulletin of Steel Statistics for Europe 34
Annual Bulletin of Trade in Chemical Products 35
Annual Bulletin of Transport Statistics for Europe 34
Annual Forest Products Market Review 28
Annual Review of Engineering Industries and Automation 29
Annual Review of the Chemical Industry 30
Application of Environmental Impact Assessment 13
Application of Environmental Impact Assessment: 13
Assessment of Long-Range Transboundary Air Pollution 16

B

Bilateral and Multilateral Agreements and other 15
Building Regulations in UN/ECE Countries 18
Bulletin of Statistics on World Trade in Engineering 35

C

Census of Motor Traffic on Main International Traffic 21
Charter on Ground Water Management 14
Clean Combustion of Brown Coal and Lignite 24
Code of Conduct on Accidental Pollution of Transboundary 14
Code of Practice for the Conservation of Threatened 12
Comparative GDP Levels: Physical Indicators Phase 5
Comparative Views of Economic Reforms in Hungary, 6
Conditions for Economic Recovery in Central and 6
Containers: Towards a New Generation of Inland 20
Convention on Civil Liability for Damage Caused During 22
Convention on Environmental Impact Assessment 13
Convention on Long-range Transboundary Air Pollution 15
Convention on the Protection and Use of Transboundary 14
Convention on the Transboundary Effects of Industrial 13

D

Declaration on Conservation of Flora, Fauna 12
Demographic Causes and Economic Consequences of 5
Digital Imaging in Health Care 30
Directory of Bodies Concerned with Urban and Regional 19
Directory of Chemical Producers and Products: 30

E

East-West Joint Ventures: Economic, Business, 10
East-West Energy Efficiency: Policies and Programmes 24
East-West Investment and Joint Ventures News 8
East-West Joint Venture Contracts 10
ECE 1947-1987 4
Economic Bulletin for Europe 4
Economic Growth in the Market Economies, 6
Economic Integration in Europe and North America 5
Economic Reforms and their Significance for All-European 7
Economic Reforms in the European Centrally Planned 5
Economic Survey of Europe 4
Economics and Environment in the former Soviet 6
Effects and Control of Transboundary Air Pollution 16
Energy Balances for Europe and North America 23
Energy Efficiency in European Industry 23
Energy Efficient Design 24
Energy Reforms in Central and Eastern Europe: 24
Engineering Industries: Dynamics of the Eighties 29
Engineering Plastics 30
Environment in Europe and North America: Annotated 33
European Agreement Concerning the International Carriage 22
European Red List of Globally Threatened Animals 12
European Timber Trends and Prospects to the Year 27
Europe's Railways of the '90s: A White Paper 20

United Nations Economic Commission for Europe
UN/ECE

F

Five Years of Perestroika: Results, Problems, 7
Food-Processing Machinery Including Packaging Techniques 29
Forecasting and Programming of Housing 17
Foreign Direct Investment and Privatization in the 10
Forest Products Markets 28
Forest Products Statistics 28
Forest Products Trade Flow Data 28
Forest Resources of the ECE Region 28
Forest Resources of the Temperate Zones 27
Forest Resources of the Temperate Zones: Main Find 27

G

Gas Networks in Europe: Interconnection 25
Grain Market 26
Ground Water Legislation in the UN/ECE Region 14
Guide on Selected Legal Issues Related to Privatization 9

H

Housing Policy Guidelines 17
Human Settlements Situation in the UN/ECE Region 17

I

Impacts of Long-Range Transboundary Air Pollution 16
Importance of the Iron and Steel Industry 31
International Buy-Back Contracts 11
International Codification System for Medium and H 25
International Counterpurchase Contracts 10
International Forest Fire News 28
International Harmonization of Approval and Control 19
International Harmonization of Building Regulation 19
International Transport in Europe: An Analysis of 20
Iron and Steel Scrap 32

L

Legal Aspects of Privatization in Industry 9
Livestock and Meat Market 26
Long-term Perspectives for Human Settlements 17
Long-term Series of Roundwood Prices 28
Low-waste Technologies in Engineering Industries 29

M

Management Development in East-West Joint Ventures 9
Management of Plastic Wastes in the ECE Region 30
Managing Reforms in the East European Countries: 7
Membrane Technology in the Chemical Industry 31
Methods and Techniques for Prediction of Environment 13
Milk and Dairy Products Market 26
Monthly Prices for Forest Products 28

N

National Strategies for Protection of Flora, Fauna 12

O

Optimum Use of Primary Energy Resources 23
Outlook for the Forest and Forest Products Section 27
Overall Economic Perspective to the Year 2000 4

P

Personal and Collective Services: An International 6
Policies and Systems of Environmental Impact Asses 13
Post-project Analysis in Environmental Impact Assessment 13
Prices of Agricultural Products and Selected Input 26
Prospects for Mining to the Year 2000: Proceedings 25
Protection of Water Resources and Aquatic Ecosystems 14
Protocol to the 1979 Convention on Long-range Transboundary 15

R

Rational Use of Water and its Treatment in the Chemical 30
Recommendations for the 1990 Censuses of Population 34
Recommendations on the Transport of Dangerous Good 22
Recuperation and Economic Utilization of By-products 32
Reforms in Foreign Economic Relations of Eastern E 5
Regional Cooperation to Promote Environmental Protection 13
Regional Strategy for Environmental Protection 12
Relationship Between Housing and the National Economy 18
Rent Policy in UN/ECE Countries 18
Research on Long-term Perspectives for Human 17
Roundtable on European Integration 6

S

Scope for Macroeconomic Policy to Alleviate Unemployment 6
Series: Air Pollution Studies 16
Series: UN/ECE Discussion Papers 6
Series: UN/ECE Economic Studies 5
Series: UN/ECE Steel Series 32
Social Aspects and Country Reviews of Population 6
Software for Industrial Automation 29

Solar Power Systems 25
Spatial Planning for Recreation and Tourism in the 19
State of Transboundary Air Pollution 16
State of Transboundary Air Pollution: 1989 Update 16
State of Transboundary Air Pollution: Effects 16
Statistics of Road Traffic Accidents in Europe 22, 34
Statistics of World Trade in Steel 35
Steel Market 31
Steel Product Quality and Maximum Utilization of S 31
Strategies and Policies for Air Pollution Abatement 15
Structural Changes in International Steel Trade 31
Study of Regulations, Codes and Standards Related 18
Substitutes for Tripolyphosphate in Detergents 30
Sustainable Energy Developments in Europe and North 24

T

Technologies for Control of Air Pollution 16
Telecommunication Industry - Growth and Structural 29
Timber Bulletin 28
Timber Trends and Prospects for North America 27
TIR Handbook: Customs Convention on the International 21
TIR Transit System 21
Trade Data Elements Directory UNTDED 1990 8
Transboundary Air Pollution Effects and Control 16
Transport Information 21
Trends in Research on Human Settlements in UN/ECE 17
Two Decades of Co-operation on Water 14

U

UN/ECE Compendium of Model Provisions for Building 18
UN/ECE General Conditions of Sale 26
UN/ECE General Conditions of Sale for Dry (shelled 26
UN/ECE General Conditions of Sale for Fresh Fruit 26
UN/ECE General Conditions of Sale for Potatoes 26
UN/ECE Standard for Eggs-in-Shell and Explanatory 27
UN/ECE Standard for Poultry Meat and Explanatory 27
UN/ECE Standards for Dry and Dried Fruit 26
UN/ECE Standards for Fresh Fruit and Vegetables 26
Underground Storage of Natural Gas and LPG 23

W

Water Use and Water-Pollution Control: Trends, Policies 14
Working Environment in the Construction Industry: 18
World Investment Directory: Central and Eastern 8

Agents & Booksellers

ALGERIA
United Nations Information Center at Algiers
19, Ave. Chahid El-Ouali
Mustapha Sayed
Algiers
Tel. (213) (2) 744902
Fax. (213) (2) 745082

AUSTRIA
Gerold & Co.
Graben 31
A-1011 Wien
Tel. (43)(1) 5124731-0
Fax.(43)(1) 5124731-29

BELGIUM
Jean de Lannoy
Av. du Roi 202
B-1060 Bruxelles
Tel. (32) (2) 5385169
Fax. (32) (2) 5380841

BOSNIA
Publishing House
Veselin Maslesa
Ul. Obala V. Stepe Br.4
Pro.Boks 237
71000 Sarajevo

CROATIA
ALGORITAM Ltd.
Books and Periodicals
Gajeva 12
P.O.B. 23
41000 Zagreb
Tel. (38) (41) 425532
Fax. (38) (41) 420766

CZECH REPUBLIC
Artia Foreign Trade Ltd.
P.O. Box 790
Ve Smeckach 30
11127 Praha 1
Tel. (42) (2) 2137111
Telex. 121065 ARTA C

DENMARK
Munksgaard
P.O. Box 2148
35 Nørre Søgade
DK-1016 Copenhagen K
Tel. (45) (33) 128570
Fax. (45) (33) 129387

EGYPT
The Middle East Observer
41 Sherif St.
Cairo
Tel. (20) (2) 3939732
Fax. (20) (2) 3939732

FINLAND
Akateeminen Kirjakauppa
P.O. Box 218
Keskuskatu 1
SF-00381 Helsinki
Tel. (358) (0) 12141
Fax. (358) (0) 1214450

FRANCE
Librairie du Commerce International
B.P. 438
F-75233 PARIS CEDEX 05
Tel. (33) (1) 40733336
Fax. (33) (1) 43364798

GERMANY
UNO-Verlag
Poppelsdorfer Allee 55
D-53115 Bonn 1
Tel. (49) (228) 212940
Fax. (49) (228) 217492

GREECE
Librairie Kauffmann S.A.
Mavrokordatou 9
GR-10678 Athens
Tel. (30) (1) 3629283
Fax. (30) (1) 3633967

HUNGARY
KULTURA
Külkereskedelmi Vállalat
P.O. Box 149
H-1389 Budapest 62
Tel. (36) (1) 2014411
Fax. (36) (1) 2013207

IRELAND
Government Stationary Office
6th floor, Bishop Street
IRL-Dublin 8
Tel. (353) (1) 613111
Fax. (353) (1) 780645

ISRAEL
R.O.Y. International
P.O.B.13056
Tel Aviv 61130
Tel. (972) (3) 496108
Fax. (972) (3) 5446039

ITALY
Licosa
Libreria Commissionaria
Sansoni s.p.a.
Via Duca Di Calabria 1/1
I-50125 Firenze
Tel. (39) (55) 645415
Fax. (39) (55) 641257

KUWAIT
The Kuwait Bookshops Co. Ltd.
P.O.B. 2942
Safat 13030
Tel. (965) 2424266
Fax. (965) 2420558

LUXEMBURG
(See Belgium)

NETHERLANDS
Roodveldt Import b.v.
Brouwersgracht 288
NL-1013 HG Amsterdam
Tel. (31) (20) 6228035
Fax. (31) (20) 6255493

NORWAY
NIC Narvesen Info Center
Bertrand Narvesens vei 2
P.O.Box 6125
Etterstad
N-0602 Oslo 6
Tel. (47) (2) 573300
Fax. (47) (2) 685347

POLAND
IPS Journals
Ul-Okrezna 3
02-916 Warszawa
Tel. (48) (2) 6422766
Fax. (48) (2) 6422769

PORTUGAL
Livraria Portugal
Dias & Andrade, LDA
APARTADO 2681
1117 Lisboa CODEX
Tel. (351) (1) 3474982-5
Fax. (351) (1) 3470264

SLOVAKIA*

SLOVENIA
Cankarjeva Zalozba
Abanka Joint-Stock Company
P.O.Box 201-IV
Kopitarjeva 2
61000 Ljubljana
Tel. (38) (61) 323841
Telex. 31821 CANKAR YU

SOUTH AFRICA*

SPAIN
Mundi-Prensa Libros, s.a.
Castelló 37
E-28001 Madrid
Tel. (34) (1) 4313399
Fax. (34) (1) 5753998

SWEDEN
C.E. Fritzes
P.O.Box 16356
S-103 27 Stockholm
Tel. (46) (8) 238900
Fax. (46) (8) 205021

SWITZERLAND
For Visitors of the Palais des Nations
cash and carry sales only
UN Bookshop, Gates 6 & 40

ADECO Van Diemen
Editions Techniques
P.O. Box 465
CH-1211 Genève 19
Tel. (41) (21) 9432673
Fax. (41) (21) 9433605

Buchhandlung Heinimann
Kirchgasse 17
CH-8001 Zurich
Tel. (41) (1) 2511368
Fax. (41) (1) 2511481

UNITED KINGDOM
HMSO Publications Centre
P.O. Box 276
51, Nine Elms Lane
GB- London SW8 5DR
Tel. (44) (71) 8738365
Fax. (44) (71) 8738463

**For addresses and countries which are not listed, please enquire at UN Publications, CH-1211 Geneva 10, Fax. (41) (22) 9170027*

UNITED NATIONS PUBLICATIONS

Order Form

Name: _____

Order reference and date: _____

Address: _____

I wish to order the following publications:

Quantity	Price/Unit	Total Price

Send Your Order Form to a Bookseller/Agent of your choice!

كيفية الحصول على منشورات الامم المتحدة

يمكن الحصول على منشورات الامم المتحدة من المكتبات ودور التوزيع في جميع انحاء العالم . استعلم عنها من المكتبة التي تتعامل معها أو اكتب الى : الامم المتحدة ،قسم البيع في نيويورك او في جنيف .

如何购取联合国出版物

联合国出版物在全世界各地的书店和经售处均有发售。请向书店询问或写信到纽约或日内瓦的联合国销售组。

HOW TO OBTAIN UNITED NATIONS PUBLICATIONS

United Nations publications may be obtained from bookstores and distributors throughout the world. Consult your bookstore or write to: United Nations, Sales Section, New York or Geneva.

COMMENT SE PROCURER LES PUBLICATIONS DES NATIONS UNIES

Les publications des Nations Unies sont en vente dans les librairies et les agences dépositaires du monde entier. Informez-vous auprès de votre libraire ou adressez-vous à : Nations Unies, Section des ventes, New York ou Genève.

КАК ПОЛУЧИТЬ ИЗДАНИЯ ОРГАНИЗАЦИИ ОБЪЕДИНЕННЫХ НАЦИЙ

Издания Организации Объединенных Наций можно купить в книжных магазинах и агентствах во всех районах мира. Наводите справки об изданиях в вашем книжном магазине или пишите по адресу: Организация Объединенных Наций, Секция по продаже изданий, Нью-Йорк или Женева.

COMO CONSEGUIR PUBLICACIONES DE LAS NACIONES UNIDAS

Las publicaciones de las Naciones Unidas están en venta en librerías y casas distribuidoras en todas partes del mundo. Consulte a su librero o diríjase a: Naciones Unidas, Sección de Ventas, Nueva York o Ginebra.

Printed at United Nations, Geneva
GE.93-22434—July 1993—35,000

United Nations publication